

V. Ford
596101

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E TRYPANOLYTIC/CT 5
E GLUCAN BINDING/CT 5
E LPS BINDING/CT 5

=> fil medl,caplus,biosis,embase,wpids,jicst;s (trypanolytic or cytolytic or
glucan bind? or lps bind? or opsoniz?) and (e or eisenia)(w)foetid?
COST IN U.S. DOLLARS

	SINCE FILE	TOTAL
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L1	7	FILE MEDLINE
L2	11	FILE CAPLUS
L3	8	FILE BIOSIS
L4	6	FILE EMBASE
L5	1	FILE WPIDS
L6	0	FILE JICST-EPLUS

TOTAL FOR ALL FILES

L7 33 (TRYPANOLYTIC OR CYTOLYTIC OR GLUCAN BIND? OR LPS BIND? OR
OPSON

IZ?) AND (E OR EISENIA)(W)FOETID?

=> dup rem l7

PROCESSING COMPLETED FOR L7

L8 12 DUP REM L7 (21 DUPLICATES REMOVED)

=> d cbib abs 1-12

L8	ANSWER 1 OF 12	MEDLINE	DUPLICATE 1
2000092910	Document Number: 20092910.	PubMed ID: 10625682.	A

lipopolysaccharide- and beta-1,3-glucan-binding protein from hemocytes of the freshwater crayfish *Pacifastacus leniusculus*. Purification, characterization, and cDNA cloning. Lee S Y; Wang R; Soderhall K. (Department of Comparative Physiology, Evolutionary Biology Center, Uppsala University, Norbyvagen 18A, S-75236, Uppsala, Sweden.) JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Jan 14) 275 (2) 1337-43. Journal code: HIV; 2985121R. ISSN: 0021-9258. Pub. country: United States.

Language: English.

AB A lipopolysaccharide- and beta-1,3-glucan-binding protein (LGBP) was isolated and characterized from blood cells (hemocytes) of the freshwater crayfish *Pacifastacus leniusculus*. The LGBP was purified by chromatography on Blue-Sepharose and phenyl-Sepharose, followed by Sephacryl S-200. The LGBP has a molecular mass of 36 kDa and 40 kDa on 10% SDS-polyacrylamide gel electrophoresis under reducing and nonreducing conditions, respectively. The calculated mass of LGBP is 39,492 Da, which corresponds to the native size of LGBP; the estimated pI of the mature LGBP is 5.80. LGBP has binding activity to lipopolysaccharides as well as to beta-1,3-glucans such as laminarin and curdlan, but peptidoglycan could not bind to LGBP. Cloning and sequencing of LGBP showed significant homology with several putative Gram-negative bacteria-binding proteins and beta-1, 3-glucanases. Interestingly, LGBP also has a structure and functions similar to those of the coelomic **cytolytic** factor-1, a lipopolysaccharide- and **glucan-binding** protein from the earthworm *Eisenia foetida*. To evaluate the involvement of LGBP in the prophenoloxidase (proPO) activating system, a polyclonal antibody against LGBP was made and used for the inhibition of phenoloxidase (PO) activity triggered by the beta-1,3-glucan laminarin in the hemocyte lysate of crayfish. The PO activity was blocked completely by the anti-LGBP antibody. Moreover, the PO activity could be recovered by the addition of purified LGBP. These results suggest that the 36-kDa LGBP plays a role in the activation of the proPO activating system in crayfish and thus seems to play an important role in the innate immune system of crayfish.

L8 ANSWER 2 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS
2000:361799 Document No.: PREV200000361799. Earthworm functional analog of TNF

increases membrane conductance in mammalian cells. Bloc, A. (1); Lucas, R.

(1); De Baetselier, P.; Bilej, M.; Beschin, A.. (1) Department of Internal Medicine and Pharmacology, University of Geneva, Geneva Switzerland. Developmental & Comparative Immunology, (2000) Vol. 24, No. Supplement 1, pp. S95. print. Meeting Info.: 8th Congress of the International Society of Developmental and Comparative Immunology Cairns, Australia July 03-06, 2000 ISSN: 0145-305X. Language: English. Summary Language: English.

L8 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2001 ACS DUPLICATE 2

1999:405076 Document No. 131:41281 Earthworm coelomic **cytolytic** factor CCF-1 and treatment of cancer and trypanosomal or bacterial infection. De Baetselier, Patrick (Vlaams Interuniversitair Instituut voor Biotechnologie Vzw., Belg.). PCT Int. Appl. WO 9931229 A2 19990624, 49 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY,

CA,

CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI; FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-EP8169 19981216. PRIORITY: EP 1997-203974 19971217.

AB The invention concerns **Eisenia foetida** CCF-1 and a 13-amino acid peptide derived therefrom (SGEIDIETIGNR) which are useful in tumor therapy, microbial infection, inflammation or immunol. The invention also relates to a process for prepg. CCF-1 and peptide with recombinant cells. Furthermore the invention concerns nucleic acids coding for CCF-1 and peptide. Thus, the previously described 42-kilodalton **cytolytic** protein of **E. foetida** (CCF-1) was shown to bind lipopolysaccharide (LPS) and .beta.-1,3-glucan and to have **trypanolytic** activity. The activity profile of CCF-1 resembles that of tumor necrosis factor .alpha. (TNF.alpha.), so CCF-1 may be considered a primitive type of cytokine which may be useful as an alternative to TNF.alpha.. Anti-TNF.alpha. monoclonal antibodies crossreacted with CCF-1 and vice-versa. In **E. foetida**, CCF-1 levels were increased after LPS treatment, which resembles TNF.alpha. induction by LPS in vertebrates. CCF-1 also participated in the prophenol oxidase cascade of the coelomic fluid of **E. foetida**. The **cytolytic**, **trypanolytic** and **glucan-binding** activity of CCF-1 was also displayed by the 13-amino acid peptide described above. The sequence of this peptide is, however, completely different from the TIP region of TNF.alpha..

L8 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2001 ACS

1999:539165 Document No. 131:285145 Convergent evolution of cytokines. Beschin, Alain; Bilej, Martin; Brys, Lea; Torreele, Els; Lucas, Rudolf; Magez, Stefan; De Baetselier, Patrick (Dep. Immunology, Parasitology and Ultrastructure, Flemish Interuniversity Inst. Biotechnology, St-Genesius-Rode, 1640, Belg.). Nature (London), 400(6745), 627-628 (English) 1999. CODEN: NATUAS. ISSN: 0028-0836. Publisher: Macmillan Magazines.

AB Despite their functional analogies, the defense mol. from the earthworm **Eisenia foetida** named coelomic **cytolytic** factor-1 (CCF-1), and tumor necrosis factor .alpha. do not show genetic homol., indicating that they lack a common evolutionary origin. CCF-1 cannot therefore be considered as an invertebrate cytokine homolog.

L8 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2001 ACS

1999:385557 Document No. 131:166768 Biochemical characteristics of Eiseniapore, a pore-forming protein in the coelomic fluid of earthworms. Lange, Sven; Kauschke, Ellen; Mohrig, Werner; Cooper, Edwin L. (Mathematisch-Naturwissenschaftliche Fakultät I Institut für Biologie/Biophysik, Humboldt Universität Berlin, Germany). Eur. J.

Biochem., 262(2), 547-556 (English) 1999. CODEN: EJBCAI. ISSN: 0014-2956. Publisher: Blackwell Science Ltd..

AB The **cytolytic** protein Eiseniapore (38 kDa) from coelomic fluid of the earthworm *Eisenia fetida* functionally requires sphingomyelin as revealed by using mammalian erythrocytes and phospholipid vesicles. The effects of ions, glycoproteins and phospholipids were investigated for the two-step Eiseniapore action mode, binding and pore formation in different assays. Eiseniapore lysis is activated by thiol groups but inhibited by metal ions. Eiseniapore binding to target membranes is inhibited by Eiseniapore-regulating factor, vitronectin, heparin and lysophosphatidylcholine. Ca^{2+} and Mg^{2+} were found to be not necessary for membrane binding or lytic activity. Sphingomyelin was essential for Eiseniapore-induced leakage of liposomes. We describe a **cytolytic** protein/toxin in Eiseniapore which differs from the established classification; it can be activated by thiol groups and is inhibited by sphingomyelin. Electron microscopy of erythrocyte membranes confirmed ring-shaped structures (pores) with a central channel with outer (10 nm) and inner (3 nm) diams. as shown previously [Lange, S., Nussler, F., Kauschke, E., Lutsch, G., Cooper, E.L. & Herrmann, A. (1997) J. Biol. Chem. 272, 20884-20892] using artificial membranes. Functional evidence of pore formation by Eiseniapore was revealed as protection of lysis by carbohydrates occurred at an effective diam. above 3 nm. From these results, we suggest a plausible explanation for the mechanism by which components of the earthworm's immune system destroy non-self components.

L8 ANSWER 6 OF 12 MEDLINE DUPLICATE 3
1999057952 Document Number: 99057952. PubMed ID: 9837968. Mammalian cell mutants resistant to a sphingomyelin-directed cytolysin. Genetic and biochemical evidence for complex formation of the LCB1 protein with the LCB2 protein for serine palmitoyltransferase. Hanada K; Hara T; Fukasawa M; Yamaji A; Umeda M; Nishijima M. (Department of Biochemistry and Cell Biology, National Institute of Infectious Diseases, Tokyo 162-8640, Japan.. hanak@nih.go.jp) . JOURNAL OF BIOLOGICAL CHEMISTRY, (1998 Dec 11) 273 (50) 33787-94. Journal code: HIV; 2985121R. ISSN: 0021-9258. Pub. country: United States. Language: English.

AB Lysenin, a hemolytic protein derived from the earthworm *Eisenia foetida*, has a high affinity for sphingomyelin. Chinese hamster ovary (CHO) cells exhibited a high **cytolytic** sensitivity to lysenin, but treatment with sphingomyelinase rendered the cells resistant to lysenin. Temperature-sensitive CHO mutant cells defective in sphingolipid synthesis were resistant to lysenin, and this lysenin resistance was suppressed by metabolic complementation of sphingolipids. Selection of lysenin-resistant variants from mutagenized CHO cells yielded two types of sphingomyelin-deficient mutants, both of which showed less lysenin binding capability than wild-type cells. One mutant strain was severely defective in sphingomyelin synthesis but not glycosphingolipid synthesis, and another strain (designated LY-B) was incapable of de novo synthesis of any sphingolipid species and had no activity of serine palmitoyltransferase (SPT; EC 2.3.1.50) catalyzing the first step of sphingolipid biosynthesis. LY-B cells lacked the LCB1 protein, a component of SPT, and transfection of LY-B cells with the hamster LCB1 cDNA restored

both SPT activity and sphingolipid synthesis to the cells..Expression of an affinity peptide-tagged LCB1 protein in LY-B cells caused the endogenous LCB2 protein to adsorb to a tag affinity matrix. In addition, an anti-hamster LCB2 protein antibody co-immunoprecipitated both SPT activity and the wild-type LCB1 protein with the LCB2 protein. Thus, cell surface sphingomyelin is essential for lysenin-induced cytolysis, and lysenin is a useful tool for isolation of sphingomyelin-deficient mutants.

Moreover, these results demonstrate that the SPT enzyme comprises both the LCB1 and LCB2 proteins.

L8 ANSWER 7 OF 12 MEDLINE DUPLICATE 4
1998406152 Document Number: 98406152. PubMed ID: 9733802. Identification and cloning of a glucan- and lipopolysaccharide-binding protein from *Eisenia foetida* earthworm involved in the activation of prophenoloxidase cascade. Beschin A; Bilej M; Hanssens F; Raymakers J;

Van Dyck E; Revets H; Brys L; Gomez J; De Baetselier P; Timmermans M. (Unit of Cellular Immunology, Flemish Interuniversity Institute for Biotechnology, VIB-VUB, Paardenstraat 65, B-1640 St-Genesius-Rode, Belgium.. abeschin@vub.ac.be) . JOURNAL OF BIOLOGICAL CHEMISTRY, (1998 Sep 18) 273 (38) 24948-54. Journal code: HIV; 2985121R. ISSN: 0021-9258. Pub. country: United States. Language: English.

AB Coelomic fluid of *Eisenia foetida* earthworms contains a 42-kDa protein named coelomic **cytolytic** factor 1 (CCF-1) that was described previously to be involved in **cytolytic**, **opsonizing**, and hemolytic properties of the coelomic fluid. Cloning and sequencing of CCF-1 reveal significant homology with the putative catalytic region of beta-1,3- and beta-1,3-1,4-glucanases. CCF-1 also displays homology with coagulation factor G from *Limulus polyphemus* and with Gram-negative bacteria-binding protein of *Bombyx mori* silkworm, two proteins involved in invertebrate defense mechanisms. We show that CCF-1 efficiently binds both beta-1,3-glucan and lipopolysaccharide. Moreover, CCF-1 participates in the activation of prophenoloxidase

cascade via recognition of yeast and Gram-negative bacteria cell wall components. These results suggest that the 42-kDa CCF-1 protein of *E. foetida* coelomic fluid likely plays a role in the protection of earthworms against microbes.

L8 ANSWER 8 OF 12 MEDLINE DUPLICATE 5
1998200532 Document Number: 98200532. PubMed ID: 9541459. Cellular expression of the **cytolytic** factor in earthworms *Eisenia foetida*. Bilej M; Rossmann P; Sinkora M; Hanusova R; Beschin A; Raes G; De Baetselier P. (Department of Immunology, Institute of Microbiology, Academy of Sciences of the Czech Republic, Videnska, Prague.

) IMMUNOLOGY LETTERS, (1998 Jan) 60 (1) 23-9. Journal code: GIH; 7910006.

ISSN: 0165-2478. Pub. country: Netherlands. Language: English.
AB Coelomic fluid of earthworms contains a 42 kDa protein designated CCF-1 (coelomic **cytolytic** factor 1), which accounts for approximately 40% of **cytolytic** activity of the entire coelomic fluid. CCF-1

was documented to be present on cells of the mesenchymal lining of the coelomic cavity as well as on free coelomocytes. Both cellular and humoral levels of CCF-1 were significantly increased after parenteral injection of endotoxin. Moreover, CCF-1 seems to be involved in cell mediated cytotoxicity, because cytotoxic activity is blocked in the presence of anti-CCF-1 monoclonal antibody (mAb).

L8 ANSWER 9 OF 12 MEDLINE DUPLICATE 6
1998111441 Document Number: 98111441. PubMed ID: 9449789. Lesion of leukocytes, erythrocytes, and mesothelial cells by the coelomic fluid of **Eisenia foetida** earthworms. Rossmann P; Bilej M; Tuckova L; Stary V; Kofronova O. (Department of Immunology, Academy of Sciences of the Czech Republic, Prague, Czech Republic.) FOLIA MICROBIOLOGICA, (1997) 42 (4) 409-16. Journal code: F23; 0376757. ISSN: 0015-5632. Pub. country:

Czech Republic. Language: English.
AB Coelomic fluid of **Eisenia foetida** earthworms is known to exert strong proteolytic, hemolytic, bacteriostatic, and **cytolytic** properties. Ultrastructural observations revealed that coelomic fluid causes multiple ruptures and defects in the erythrocyte membrane as well as in the membrane of murine peritoneal leukocytes. Incubation of peritoneal cells in coelomic fluid resulted in a disorganization of the macrophage surface microvilli, changes in the organization of cytoplasmic organelles and disruption and degranulation of mast cells. Severe mesothelial damage was observed after intraperitoneal administration of the coelomic fluid.

L8 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2001 ACS
1995:912508 Document No. 123:335579 Hemolytic function of opsonin-like molecules in coelomic fluid of earthworms. Sinkora, Marek; Bilej, Martin; Drbal, Karel; Tuckova, Ludmila (Institute Microbiology, Czech Academy Sciences, Prague, Czech Rep.). Adv. Exp. Med. Biol., 371A(Advances in Mucosal Immunology, Part A), 341-2 (English) 1995. CODEN: AEMBAP. ISSN: 0065-2598.

AB **Opsonizing** proteins with hemolytic activity were isolated from the coelomic fluid of earthworms (**Eisenia foetida**).

L8 ANSWER 11 OF 12 MEDLINE DUPLICATE 7
95347752 Document Number: 95347752. PubMed ID: 7622179. Identification of a **cytolytic** protein in the coelomic fluid of **Eisenia foetida** earthworms. Bilej M; Brys L; Beschin A; Lucas R; Vercauteren E; Hanusova R; De Baetselier P. (Department of Immunology and Gnotobiology, Academy of Sciences of the Czech Republic, Prague.) IMMUNOLOGY LETTERS, (1995 Feb) 45 (1-2) 123-8. Journal code: GIH; 7910006. ISSN: 0165-2478. Pub. country: Netherlands. Language: English.
AB Total coelomic fluid of earthworms **Eisenia foetida** (Oligochaeta, Annelida) is capable of lysing different mammalian tumor cell lines. This **cytolytic** activity is different from tumor

necrosis factor (TNF)-mediated lysis and is not due to proteolysis. Total coelomic fluid was subjected to ion-exchange chromatography separation and a fraction with prominent **cytolytic** activity was used to elicit monoclonal antibodies that were screened for their capacity to neutralize the **cytolytic** effect of total coelomic fluid. One of the prepared neutralizing IgG antibodies was used for the immunoaffinity purification of a **cytolytic** factor from total coelomic fluid. SDS-PAGE and Western blot analyses revealed a protein band with an apparent molecular weight of 42 kDa. This **cytolytic** protein (termed CCF-1 or coelomic **cytolytic** factor 1) can be adsorbed on the surface of **opsonized** particles and may be involved in **opsonizing** and hemolytic effects of coelomic fluid.

L8 ANSWER 12 OF 12. MEDLINE DUPLICATE 8
 94115317 Document Number: 94115317. PubMed ID: 8287023. Hemolytic function of **opsonizing** proteins of earthworm's coelomic fluid. Sinkora M; Bilej M; Tuckova L; Romanovsky A. (Faculty of Natural Sciences, Charles University, Vinicna, Prague, Czech Republic.) CELL BIOLOGY INTERNATIONAL, (1993 Oct) 17 (10) 935-9. Journal code: BPN; 9307129. ISSN: 1065-6995. Pub. country: ENGLAND: United Kingdom. Language: English.

AB Synthetic 2-hydroxyethylmethacrylate copolymer particles (HEMA) can be **opsonized** in the coelomic fluid of **Eisenia foetida** earthworms. The incomplete coelomic fluid (i.e., the coelomic fluid after incubation with HEMA particles) exerts a lower level of hemolytic activity compared to complete coelomic fluid. The decreased hemolysis can be compensated by the addition of isolated opsonins. On the other hand, isolated opsonins do not possess direct hemolytic capacity. It can be suggested that at least one of the isolated opsonins is involved in the hemolytic process. These results support the hypothesized cooperation of humoral and cellular mechanisms in earthworm defence.

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
32.96	34.09

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-2.35	-2.35

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=> e eisenia foetida/cn 5

E1	1	EISAI 865-123/CN
E2	1	EISENASE/CN
E3	0 -->	EISENIA FOETIDA/CN
E4	1	EISENIN/CN
E5	1	EISENINE/CN

=> e eisenia foetida

E1	2	EISENHUETTENSTADT/BI
E2	28	EISENIA/BI
E3	0 -->	EISENIA FOETIDA/BI
E4	1	EISENIN/BI
E5	1	EISENINE/BI
E6	2	EISHMAN/BI
E7	2	EISHMANIA/BI
E8	2	EISHMANOL/BI
E9	2	EISHMANOLYSIN/BI
E10	7	EISO/BI
E11	1	EISOCA/BI
E12	1	EISOCAMETHYL/BI

=> s eisenia and p/fs

	28	EISENIA
	0	P/FS
L9	0	EISENIA AND P/FS

=> s eisenia and protein/fs

	28	EISENIA
	1008402	PROTEIN/FS
L10	13	EISENIA AND PROTEIN/FS

=> fil medl,caplus,biosis,embase,wpids,jicst;s l10 or eisenia(5a)(protein or
peptide or amino acid)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	15.82	49.91

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L11	27	FILE MEDLINE
L12	92	FILE CAPLUS
L13	53	FILE BIOSIS
L14	24	FILE EMBASE
L15	4	FILE WPIDS
L16	2	FILE JICST-EPLUS

TOTAL FOR ALL FILES

L17 202 L10 OR EISENIA(5A) (PROTEIN OR PEPTIDE OR AMINO ACID)

=> s l17 and (trypanolytic or cytolytic or glucan bind? or lps bind? or opsoniz?)

L18	4	FILE MEDLINE
L19	5	FILE CAPLUS
L20	6	FILE BIOSIS
L21	4	FILE EMBASE
L22	1	FILE WPIDS
L23	0	FILE JICST-EPLUS

TOTAL FOR ALL FILES

L24 20 L17 AND (TRYPANOLYTIC OR CYTOLYTIC OR GLUCAN BIND? OR LPS BIND?
OR OPSONIZ?)

=> s l24 not l7

L25	0	FILE MEDLINE
L26	0	FILE CAPLUS
L27	2	FILE BIOSIS
L28	0	FILE EMBASE
L29	0	FILE WPIDS
L30	0	FILE JICST-EPLUS

TOTAL FOR ALL FILES

L31 2 L24 NOT L7

=> d 1-2 cbib abs;s de baetseillier p?/au,in;s beschin a?/au,in

L31 ANSWER 1 OF 2 BIOSIS COPYRIGHT 2001 BIOSIS
2001:357307 Document No.: PREV200100357307. Molecular characterization of a
cytolytic and antimicrobial defence **protein** of the
annelid **Eisenia fetida**. Leippe, M. (1); Ott, C. (1); Kauschke,
E.; Bruhn, H. (1). (1) Bernhard Nocht Institute for Tropical Medicine,

Hamburg Germany. Zoology (Jena), (2001) Vol. 103, No. Supplement 3, pp. 88. print. Meeting Info.: 93rd Annual Meeting of the Deutsche Zoologische Gesellschaft Bonn, Germany June 12-16, 2000 ISSN: 0944-2006. Language: English. Summary Language: English.

L31 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2001 BIOSIS
2000:487003 Document No.: PREV200000487003. A **cytolytic** and antimicrobial defence **protein** of the annelid **Eisenia fetida** with pore-forming activity. Bruhn, H. (1); Winkelmann, J. (1); Krause, E.; Leippe, M. (1). (1) Bernhard Nocht Institute for Tropical Medicine, Hamburg Germany. Medical Microbiology and Immunology, (September, 2000) Vol. 189, No. 1, pp. 31. print. Meeting Info.: 4th International Workshop on Pore-Forming Toxins Trento, Italy September 14-17, 2000 ISSN: 0300-8584. Language: English. Summary Language: English.

'IN' IS NOT A VALID FIELD CODE

L32 0 FILE MEDLINE
L33 0 FILE CAPLUS
L34 1 FILE BIOSIS
'IN' IS NOT A VALID FIELD CODE
L35 0 FILE EMBASE
L36 0 FILE WPIDS
L37 0 FILE JICST-EPLUS

TOTAL FOR ALL FILES

L38 1 DE BAETSEILIER P?/AU,IN

'IN' IS NOT A VALID FIELD CODE

L39 20 FILE MEDLINE
L40 20 FILE CAPLUS
L41 31 FILE BIOSIS
'IN' IS NOT A VALID FIELD CODE
L42 20 FILE EMBASE
L43 1 FILE WPIDS
L44 0 FILE JICST-EPLUS

TOTAL FOR ALL FILES

L45 92 BESCHIN A?/AU,IN

=> s baetseilier p?/au,in

'IN' IS NOT A VALID FIELD CODE

L46 0 FILE MEDLINE
L47 0 FILE CAPLUS
L48 0 FILE BIOSIS
'IN' IS NOT A VALID FIELD CODE
L49 0 FILE EMBASE
L50 0 FILE WPIDS
L51 0 FILE JICST-EPLUS

TOTAL FOR ALL FILES

L52 0 BAETSEILIER P?/AU,IN

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=> s 145 and 138
L53      0 FILE MEDLINE
L54      0 FILE CAPLUS
L55      0 FILE BIOSIS
L56      0 FILE EMBASE
L57      0 FILE WPIDS
L58      0 FILE JICST-EPLUS
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TOTAL FOR ALL FILES

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L59      0 L45 AND L38
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=> s (145 or 138) and (e or eiseni?)
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L60      7 FILE MEDLINE
L61      8 FILE CAPLUS
L62     14 FILE BIOSIS
L63      7 FILE EMBASE
L64      1 FILE WPIDS
L65      0 FILE JICST-EPLUS
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TOTAL FOR ALL FILES

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L66     37 (L45 OR L38) AND (E OR EISENI?)
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=> s 166 not (17 or 124)
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L67      4 FILE MEDLINE
L68      4 FILE CAPLUS
L69     10 FILE BIOSIS
L70      4 FILE EMBASE
L71      0 FILE WPIDS
L72      0 FILE JICST-EPLUS
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TOTAL FOR ALL FILES

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L73     22 L66 NOT (L7 OR L24)
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=> dup rem 173
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PROCESSING COMPLETED FOR L73

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L74     10 DUP REM L73 (12 DUPLICATES REMOVED)
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=> d cbib abs 1-10
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L74 ANSWER 1 OF 10      MEDLINE                      DUPLICATE 1
2001240014 Document Number: 21233355.    PubMed ID: 11334945.    Alternative
      versus classical macrophage activation during experimental African
      trypanosomosis. Baetselier P D; Namangala B; Noel W; Brys L; Pays E;
      Beschin A. (Department of Immunology, Parasitology and
      Ultrastructure, Flemish Interuniversity Institute for Biotechnology, Free
      University Brussels (VUB), Paardenstraat 65, B-1640 St-Genesius-Rode,
      Belgium. ) INTERNATIONAL JOURNAL FOR PARASITOLOGY, (2001 May 1) 31 (5-6)
      575-87. Ref: 29. Journal code: GSB; 0314024. ISSN: 0020-7519. Pub.
      country: England: United Kingdom. Language: English.
AB African trypanosomes are extracellular parasites causing sleeping
sickness
      to human or nagana to livestock in sub-Saharan Africa. To gain insight
      into factors governing resistance/susceptibility to these parasites, the
      immune responses in mice infected with a Trypanosoma brucei phospholipase
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C null mutant (PLC(-/-)) or its wild type counterpart (WT) were compared. We found that the T. b. brucei mutant inducing a chronic infection triggers the production of type I cytokines during the early stage of infection, followed by the secretion of type II cytokines in the late/chronic phase of the disease. In contrast, WT-infected mice are killed within 5 weeks and remain locked in a type I cytokine response.

The

type I/type II cytokine balance may influence the development of different

subsets of suppressive macrophages, i.e. classically activated macrophages (type I) versus alternatively activated macrophages (type II) that are antagonistically regulated. Therefore, the phenotype and accessory cell function of macrophages elicited during WT and PLC(-/-) T. b. brucei infections were addressed. Results indicate that classically activated macrophages develop in a type I cytokine environment in the early phase of both WT and PLC(-/-) trypanosome infections. In the late stage of infection, only PLC(-/-)-infected mice resisting the infection develop type II cytokine-associated alternative macrophages. In parallel, we found that mice susceptible to Trypanosoma congolense infection, showing an exponential parasite growth until they die, have a higher

level

of type II cytokines in the early stage of infection than resistant animals controlling the first peak of parasitaemia. The levels of type I cytokines were comparable in both T. congolense-resistant and

-susceptible

mice. On the basis of these results, we propose that survival to African trypanosome infection requires a type I cytokine environment and

classical

macrophage activation in the early stage of infection, enabling mice to control the first peak of parasitaemia. Thereafter, a switch to type II cytokine environment triggering alternative macrophage activation is required to enable progression of the disease into the chronic phase. The possible role of the sequential activation of alternative macrophages in the late/chronic stage of infection in the increased resistance of mice

to

PLC(-/-) T. b. brucei will be discussed.

L74 ANSWER 2 OF 10

MEDLINE

DUPLICATE 2

2001161118 Document Number: 21158235. PubMed ID: 11261785. Alternative versus classical macrophage activation during experimental African trypanosomosis. Namangala B; De Baetselier P; Noel W; Brys L; **Beschin A.** (Department of Immunology, Parasitology and Ultrastructure, Flemish Interuniversity Institute for Biotechnology, Free University Brussels (VUB), St-Genesius-Rode, Belgium.) JOURNAL OF LEUKOCYTE

BIOLOGY,

(2001 Mar) 69 (3) 387-96. Journal code: IWY; 8405628. ISSN: 0741-5400. Pub. country: United States. Language: English.

AB

The type I/type II cytokine balance may influence the development of different subsets of suppressive macrophages, i.e., classically activated macrophages (caMphi, type I) versus alternatively activated macrophages (aaMphi, type II). Recently, we showed that although mice infected with phospholipase C-deficient (PLC(-/-) Trypanosoma brucei

brucei

exhibit a clear shift from type I to the type II cytokine production,

wild

type (WT)-infected mice remain locked in a type I cytokine response. In the present study, phenotype and accessory cell function of macrophages elicited during WT and PLC-/- T. b. brucei infection were compared. Results indicate that caMphi develop in a type I cytokine environment in the early phase of WT and PLC-/- trypanosome infection, correlating with inhibition of T cell activation triggered by a mitogen, a superantigen,

or

an antigen. In the late stage of infection, only PLC(-/-)-infected mice resisting the infection develop type II cytokine-associated aaMphi correlating with impaired antigen- but not mitogen- or superantigen-induced T cell activation.

L74 ANSWER 3 OF 10 BIOSIS COPYRIGHT 2001 BIOSIS

2000:468108 Document No.: PREV200000468108. Coelomic mitogenic factor of *Eisenia foetida* earthworm. Cylkova, R. (1); De Baetselier, P.; **Beschin, A.**; Bilej, M. (1). (1) Department of Immunology, Academy of Sciences, Institute of Microbiology, Prague Czech Republic. Immunology Letters, (September, 2000) Vol. 73, No. 2-3, pp. 171. print. Meeting Info.: 24th European Immunology Meeting of the European Federation of Immunological Societies (EFIS) Poznan, Poland September 23-26, 2000 European Federation of Immunological Societies. ISSN: 0165-2478.

Language:

English. Summary Language: English.

L74 ANSWER 4 OF 10 BIOSIS COPYRIGHT 2001 BIOSIS

2000:361806 Document No.: PREV200000361806. Interaction of hemolytic and cytolytic molecules in *Eisenia fetida* earthworm. Bilej, M. (1); **Beschin, A.**; Kohlerova, P. (1); De Baetselier, P.; Mohrig, W.; Kauschke, E.. (1) Department of Immunology, Institute of Microbiology, Prague Czech Republic. Developmental & Comparative Immunology, (2000)

Vol.

24, No. Supplement 1, pp. S98. print. Meeting Info.: 8th Congress of the International Society of Developmental and Comparative Immunology Cairns, Australia July 03-06, 2000 ISSN: 0145-305X. Language: English. Summary Language: English.

L74 ANSWER 5 OF 10 BIOSIS COPYRIGHT 2001 BIOSIS

2000:361800 Document No.: PREV200000361800. Recognition of protein antigens in

earthworms. Bilej, M. (1); Cylkova, R. (1); Kohlerova, P. (1); De Baetselier, P.; **Beschin, A.**; Tuckova, L. (1). (1) Department of Immunology, Institute of Microbiology, Prague Czech Republic. Developmental & Comparative Immunology, (2000) Vol. 24, No. Supplement 1, pp. S95. print. Meeting Info.: 8th Congress of the International Society of Developmental and Comparative Immunology Cairns, Australia July 03-06, 2000 ISSN: 0145-305X. Language: English. Summary Language: English.

L74 ANSWER 6 OF 10 BIOSIS COPYRIGHT 2001 BIOSIS

2000:361789 Document No.: PREV200000361789. Identification of distinct pattern

recognition domains in earthworm defense molecule. Bilej, M. (1); Van Dijck, E.; De Baetselier, P.; **Beschin, A.** (1) Department of Immunology, Institute of Microbiology, Prague Czech Republic. Developmental & Comparative Immunology, (2000) Vol. 24, No. Supplement 1, pp. S91. print. Meeting Info.: 8th Congress of the International Society

of Developmental and Comparative Immunology Cairns, Australia July 03-06,
2000 ISSN: 0145-305X. Language: English. Summary Language: English.

L74 ANSWER 7 OF 10 BIOSIS COPYRIGHT 2001 BIOSIS
2000:370338 Document No.: PREV200000370338. Evidence for phenoloxidase activity in *Eisenia foetida* (Earthworm. Kohlerova, P. (1); **Beschin, A.**; Stijlemans, B.; De Baetselier, P.; Bilej, M. (1). (1) Department of Immunology, Institute of Microbiology, Prague Czech Republic. Developmental & Comparative Immunology, (2000) Vol. 24, No. Supplement 1, pp. S57. print. Meeting Info.: 8th Congress of the International Society of Developmental and Comparative Immunology Cairns, Australia July 03-06, 2000 ISSN: 0145-305X. Language: English. Summary Language: English.

L74 ANSWER 8 OF 10 MEDLINE DUPLICATE 3
1999270983 Document Number: 99270983. PubMed ID: 10338530. Tumor necrosis factor alpha is a key mediator in the regulation of experimental Trypanosoma brucei infections. Magez S; Radwanska M; **Beschin A**; Sekikawa K; De Baetselier P. (Laboratory of Cellular Immunology, Flanders Interuniversity Institute for Biotechnology, Free University of Brussels (Vrije Universiteit Brussel), Brussels, Belgium.. stemagez@vub.ac.be) . INFECTION AND IMMUNITY, (1999 Jun) 67 (6) 3128-32. Journal code: GO7; 0246127. ISSN: 0019-9567. Pub. country: United States. Language: English.
AB In order to evaluate during experimental Trypanosoma brucei infections the potential role of tumor necrosis factor alpha (TNF-alpha) in the host-parasite interrelationship, C57BL/6 TNF-alpha knockout mice (TNF-alpha-/-) as well as C57BL/6 wild-type mice were infected with pleomorphic T. brucei AnTat 1.1 E parasites. In the TNF-alpha-/- mice, the peak levels of parasitemia were strongly increased compared to the peak levels recorded in wild-type mice. The increased parasite burden did not reflect differences in clearance efficacy or in production of T. brucei-specific immunoglobulin M (IgM) and IgG antibodies. Trypanosome-mediated immunopathological features, such as lymph node-associated immunosuppression and lipopolysaccharide hypersensitivity, were found to be greatly reduced in infected TNF-alpha-/- mice. These results demonstrate that, during trypanosome infections, TNF-alpha is a key mediator involved in both parasitemia control and infection-associated pathology.

L74 ANSWER 9 OF 10 MEDLINE DUPLICATE 4
1999163627 Document Number: 99163627. PubMed ID: 10065744. Identification of a coelomic mitogenic factor in *Eisenia foetida* earthworm. Hanusova R; Bilej M; Brys L; De-Baetselier P; **Beschin A**. (Department of Immunology, Institute of Microbiology, Academy of Sciences of the Czech Republic, Prague.) IMMUNOLOGY LETTERS, (1999 Feb) 65 (3) 203-11. Journal code: GIH; 7910006. ISSN: 0165-2478. Pub. country: Netherlands. Language: English.
AB Coelomic fluid of earthworms *Eisenia foetida* (Oligochaeta, Annelida) exerts a mitogenic activity on murine splenocytes. Total coelomic fluid was subjected to size-exclusion chromatography and a

semi-purified mitogenic fraction (fraction 5) was isolated and further characterized. Both coelomic fluid and the semi-purified fraction 5 block concanavalin A (ConA)-induced spleen cell proliferation but exert a synergistic effect on LPS-triggered spleen cell proliferation. Using a polyclonal antiserum neutralizing the mitogenic activity of the semi-purified fraction 5, a 60-kDa component was identified and named CMF (coelomic mitogenic factor). CMF was found to bind ConA which could account for its ability to inhibit ConA-induced spleen cell proliferation.

CMF is present in the coelomic fluid as a trimer of a 20-kDa protein. N-terminal amino acid sequence of monomeric CMF reveals partial sequence homology with phospholipase A2 (PLA2). Moreover, CMF-enriched coelomic fluid fraction 5 exerts phospholipase activity comparable with that of bovine pancreatic PLA2. Our results suggest that coelomic fluid of *E. foetida* contains a ubiquitous PLA2-like enzyme which might be involved in immune reactions in earthworms such as anti-bacterial mechanisms.

L74 ANSWER 10 OF 10 BIOSIS COPYRIGHT 2001 BIOSIS
 1994:379602 Document No.: PREV199497392602. Identification of TNF-like activity in earthworms. Bilej, M.; Lucas, R.; Brys, L.; **Beschin, A.**; Magez, S.; De Baetselier, P.. Dep. Immunol., Inst. Microbiol., 142 20 Prague, CRK. European Cytokine Network, (1994) Vol. 5, No. 2, pp. 99. Meeting Info.: 5th International Congress on Tumor Necrosis Factor Monterey, California, USA May 30-June 3, 1994 ISSN: 1148-5493. Language: English.

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COST IN U.S. DOLLARS

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TOTAL

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SESSION

FULL ESTIMATED COST

50.96

100.87

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

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SESSION

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STN INTERNATIONAL LOGOFF AT 13:35:21 ON 13 AUG 2001

ANSWER 1 OF 1 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1998:480950 BIOSIS
DOCUMENT NUMBER: PREV199800480950
TITLE: Identification and cloning of a glucan- and
lipopolysaccharide-binding protein from
Eisenia foetida earthworm involved in the
activation of prophenoloxidase cascade.
AUTHOR(S): Beschin, Alain (1); Bilej, Martin; Hanssens, Filip;
Raymakers, Jos; Van Dyck, Els; Revets, Hilde; Brys, Lea;
Gomez, Julio; De Baetselier, Patrick; Timmermans, Miet
CORPORATE SOURCE: (1) Unit Cellular Immunol., Flemish Interuniversity Inst.
Biotechnol., VIB-VUB, Paardenstraat 65, B-1640
St-Genesius-Rode Belgium
SOURCE: Journal of Biological Chemistry, (Sept. 18, 1998) Vol. 273,
No. 38, pp. 24948-24954.
ISSN: 0021-9258.
DOCUMENT TYPE: Article
LANGUAGE: English

=>

L10 ANSWER 1 OF 3 BIOSIS COPYRIGHT 2001 BIOSIS
 ACCESSION NUMBER: 2000:398292 BIOSIS
 DOCUMENT NUMBER: PREV200000398292
 TITLE: A lipopolysaccharide- and beta-1,3-**glucan-binding** protein from hemocytes of the freshwater crayfish *Pacifastacus leniusculus*: Purification, characterization, and cDNA cloning.

AUTHOR(S): Lee, So Young; Wang, Ruigong; Soderhall, Kenneth (1)
 CORPORATE SOURCE: (1) Department of Comparative Physiology, Evolutionary Biology Center, Uppsala University, Norbyvagen 18A, S-75236, Uppsala Sweden

SOURCE: Journal of Biological Chemistry, (January 14, 2000) Vol. 275, No. 2, pp. 1337-1343. print.
 ISSN: 0021-9258.

DOCUMENT TYPE: Article
 LANGUAGE: English
 SUMMARY LANGUAGE: English

L10 ANSWER 2 OF 3 BIOSIS COPYRIGHT 2001 BIOSIS
 ACCESSION NUMBER: 1998:480950 BIOSIS
 DOCUMENT NUMBER: PREV199800480950
 TITLE: Identification and cloning of a glucan- and lipopolysaccharide-binding protein from **Eisenia foetida** earthworm involved in the activation of prophenoloxidase cascade.

AUTHOR(S): Beschin, Alain (1); Bilej, Martin; Hanssens, Filip; Raymakers, Jos; Van Dyck, Els; Revets, Hilde; Brys, Lea; Gomez, Julio; De Baetselier, Patrick; Timmermans, Miet

CORPORATE SOURCE: (1) Unit Cellular Immunol., Flemish Interuniversity Inst. Biotechnol., VIB-VUB, Paardenstraat 65, B-1640 St-Genesius-Rode Belgium

SOURCE: Journal of Biological Chemistry, (Sept. 18, 1998) Vol. 273, No. 38, pp. 24948-24954.
 ISSN: 0021-9258.

DOCUMENT TYPE: Article
 LANGUAGE: English

L10 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1999:405076 CAPLUS
 DOCUMENT NUMBER: 131:41281
 TITLE: Earthworm coelomic cytolytic factor CCF-1 and treatment of cancer and trypanosomal or bacterial infection

INVENTOR(S): De Baetselier, Patrick
 PATENT ASSIGNEE(S): Vlaams Interuniversitair Instituut voor Biotechnologie Vzw., Belg.

SOURCE: PCT Int. Appl., 49 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9931229	A2	19990624	WO 1998-EP8169	19981216
WO 9931229	A3	19990826		
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,			

FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
AU 9921616 A1 19990705 AU 1999-21616 19981216
EP 1042475 A2 20001011 EP 1998-965828 19981216
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI
PRIORITY APPLN. INFO.: EP 1997-203974 A 19971217
 WO 1998-EP8169 W 19981216

=>

L8 ANSWER 1 OF 83 USPATFULL

ACCESSION NUMBER: 2001:51823 USPATFULL
TITLE: Protease
INVENTOR(S): Natori, Shunji, Ibaraki Pref., Japan
PATENT ASSIGNEE(S): University of Tokyo, Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6214599	B1	20010410
APPLICATION INFO.:	US 2000-515039		20000306 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-120365, filed on 22 Jul 1998		

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1997-333474	19971118
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Saidha, Tekchand	
LEGAL REPRESENTATIVE:	Venable, Schneller, Marina V.	
NUMBER OF CLAIMS:	3	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	26 Drawing Figure(s); 25 Drawing Page(s)	
LINE COUNT:	1310	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L8 ANSWER 2 OF 83 CABA COPYRIGHT 2001 CABI

ACCESSION NUMBER: 2001:106738 CABA
DOCUMENT NUMBER: 20013099900
TITLE: Estimates of nutritive value of Venezuelan feed resources destined for monogastric animals
Algunos aspectos del valor nutritivo de alimentos venezolanos destinados a animales monogastricos
AUTHOR: Gonzalvo, S.; Nieves, D.; Ly, J.; Macias, M.; Caron, M.; Martinez, V.
CORPORATE SOURCE: Instituto de Investigaciones Porcinas, Gaveta Postal 1, Punta Brava, La Habana 1920, Cuba.
SOURCE: Livestock Research for Rural Development, (2001) Vol. 13, No. 2, pp. 1-7. 15 ref.
ISSN: 0121-3784
DOCUMENT TYPE: Journal
LANGUAGE: Spanish
SUMMARY LANGUAGE: English

L8 ANSWER 3 OF 83 USPATFULL

ACCESSION NUMBER: 2000:105699 USPATFULL
TITLE: Protease
INVENTOR(S): Natori, Shunji, Tone-Machi, Japan
PATENT ASSIGNEE(S): The University of Tokyo, Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6103514		20000815
APPLICATION INFO.:	US 1998-120365		19980722 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1997-333474	19971118
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Wax, Robert A.	
LEGAL REPRESENTATIVE:	Venable	

NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 26 Drawing Figure(s); 25 Drawing Page(s)
LINE COUNT: 3357
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 4 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 2000:504890 CAPLUS
DOCUMENT NUMBER: 133:192617
TITLE: "In situ" vermicomposting of biological sludges and impacts on soil quality
AUTHOR(S): Masciandaro, G.; Ceccanti, B.; Garcia, C.
CORPORATE SOURCE: CNR, Istituto Chimica del Terreno, Pisa, I-56127, Italy
SOURCE: Soil Biol. Biochem. (2000), 32(7), 1015-1024
CODEN: SBIOAH; ISSN: 0038-0717
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 38
REFERENCE(S): (5) Ayuso, M; Soil Science and Plant Nutrition 1996, V42, P105 CAPLUS
(6) Bastian, R; Utilization, Treatment and Disposal of Waste on Land 1986, P217 CAPLUS
(7) Beloso, M; Bioresource Technology 1993, V45, P123 CAPLUS
(9) Bolton, H; Soil Biology and Biochemistry 1985, V17, P297 CAPLUS
(12) Ceccanti, B; Humic Substances in the Global Environment and Implication on Human Health 1994, P1279 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 2001:27752 BIOSIS
DOCUMENT NUMBER: PREV200100027752
TITLE: Physical mapping of rDNA genes, (TTAGGG)_n telomeric sequence and other karyological features in two earthworms of the family Lumbricidae (Annelida: Oligochaeta).
AUTHOR(S): Vitturi, Roberto (1); Colomba, Maria Stella; Pirrone, Anna; Libertini, Angelo
CORPORATE SOURCE: (1) Dipartimento di Biologia Animale, Universita di Palermo, Via Archirafi 18, 90123, Palermo: zuvitcol@unipa.it Italy
SOURCE: Heredity, (September, 2000) Vol. 85, No. 3, pp. 203-207. print.
ISSN: 0018-067X.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

L8 ANSWER 6 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1999:711090 CAPLUS
DOCUMENT NUMBER: 132:31900
TITLE: Heavy metals accumulated from composted sewage sludges by Eisenia fetida earthworm
AUTHOR(S): Filipek-Mazur, Barbara; Mazur, Kazimierz; Gondek, Krzysztof
CORPORATE SOURCE: Katedra Chemii Rolnej, Akad. Rolnicza, Krakow, 31-120, Pol.
SOURCE: Folia Univ. Agric. Stetin. (1999), 200, 99-104
CODEN: FUASFI
PUBLISHER: Wydawnictwo Akademii Rolniczej w Szczecinie
DOCUMENT TYPE: Journal

LANGUAGE: Polish

L8 ANSWER 7 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1998:777981 CAPLUS

DOCUMENT NUMBER: 130:114454

TITLE: Chemical evaluation of the use of earthworms (*Eisenia fetida*) for the agricultural recycling of sludge from sewage treatment plants

AUTHOR(S): Kotowska, Janina; Kotowski, Janusz F.

CORPORATE SOURCE: Katedra Chemii Ogolnej, Akademia Rolnicza, Szczecin, Pol.

SOURCE: Chem. Inz. Ekol. (1998), 5(3), 179-185

CODEN: CIEKFX; ISSN: 1231-7098

PUBLISHER: Towarzystwo Chemii i Inzynierii Ekologicznej

DOCUMENT TYPE: Journal

LANGUAGE: Polish

L8 ANSWER 8 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1997:411922 BIOSIS

DOCUMENT NUMBER: PREV199799703965

TITLE: Interaction of earthworm hemolysin with lipid membranes requires sphingolipids.

AUTHOR(S): Lange, Sven; Nuessler, Frank; Kauschke, Ellen; Lutsch,

Gudrun; Cooper, Edwin L.; Herrmann, Andreas (1)

CORPORATE SOURCE: (1) Humboldt-Universitaet zu Berlin, Mathematisch-Naturwissenschaftliche Fakultae I, Institut fuer Biologie/Biophysik, Invalidenstrasse 43, D-10115 Berlin Germany

SOURCE: Journal of Biological Chemistry, (1997) Vol. 272, No. 33, pp. 20884-20892.

ISSN: 0021-9258.

DOCUMENT TYPE: Article

LANGUAGE: English

L8 ANSWER 9 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1997:771792 CAPLUS

DOCUMENT NUMBER: 128:44759

TITLE: Multispecies toxicity assessment of compost produced in bioremediation of an explosives-contaminated sediment

AUTHOR(S): Gunderson, Carla A.; Kostuk, Joanne M.; Gibbs, Mitchell H.; Napolitano, Guillermo E.; Wicker, Linda F.; Richmond, Jacqueline E.; Stewart, Arthur J.

CORPORATE SOURCE: Environmental Sciences Division, Oak Ridge National Laboratory, Oak Ridge, TN, 37831-6422, USA

SOURCE: Environ. Toxicol. Chem. (1997), 16(12), 2529-2537

CODEN: ETOCDK; ISSN: 0730-7268

PUBLISHER: SETAC Press

DOCUMENT TYPE: Journal

LANGUAGE: English

L8 ANSWER 10 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1997:471036 CAPLUS

DOCUMENT NUMBER: 127:158408

TITLE: Purification and determination of partial sequence of earthworm fibrinolytic enzyme

AUTHOR(S): Xiong, Yi; Yang, Si-Cheng; Liu, Xiao-Ying; Li, Ling-Yuan; Ru, Bing-Gen

CORPORATE SOURCE: Coll. Life Sci., Peking Univ., Beijing, 100871, Peop. Rep. China

SOURCE: Shengwu Huaxue Zazhi (1997), 13(3), 292-296

CODEN: SHZAE4; ISSN: 1000-8543

PUBLISHER: Zhongguo Shengwu Huaxue Yu Fenzi Shengwu Xuehui

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

L8 ANSWER 11 OF 83 CABA COPYRIGHT 2001 CABI

ACCESSION NUMBER: 1998:35050 CABA

DOCUMENT NUMBER: 981401991

TITLE: Earthworm as a potential protein resource

AUTHOR: Sun ZhenJun; Liu XianChun; Sun LiHui; Song ChunYang;
Sun, Z. J.; Liu, X. C.; Sun, L. H.; Song, C. Y.;
Paoletti, M. G. [EDITOR]; Bukkens, S. G. F. [EDITOR]

CORPORATE SOURCE: Institute of Agroecology, China Agricultural
University, 100 094 Beijing, China.

SOURCE: Ecology of Food and Nutrition, (1997) Vol. 36, No.
2/4, pp. 221-236. 44 ref.
Meeting Info.: Minilivestock.
ISSN: 0367-0244

DOCUMENT TYPE: Journal

LANGUAGE: English

L8 ANSWER 12 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1997:611127 CAPLUS

DOCUMENT NUMBER: 127:216321

TITLE: Study of the interaction between metribuzin herbicide
and humic acid from vermicompost

AUTHOR(S): Landgraf, Maria Diva; Alves, Mirian Ribeiro; Rezende,
Maria Olimpia O.

CORPORATE SOURCE: Inst. Quim. Sao Carlos, Univ. Sao Paulo, Sao Carlos,
Brazil

SOURCE: An. Assoc. Bras. Quim. (1997), 46(3), 176-183
CODEN: AABQAL; ISSN: 0365-0073

PUBLISHER: Associacao Brasileira de Quimica

DOCUMENT TYPE: Journal

LANGUAGE: Portuguese

L8 ANSWER 13 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1997:359911 BIOSIS

DOCUMENT NUMBER: PREV199799666314

TITLE: Physicochemical characterization of humic acid extracted
from vermicomposting obtained by animal manure.

AUTHOR(S): Landgraf, Maria Diva; Rezende, Maria Olimpia De O.

CORPORATE SOURCE: Instituto Quimica Sao Carlos, Univ. Sao Paulo, Caixa Postal
780, Sao Carlos, SP 13560-970 Brazil

SOURCE: Ciencia e Cultura (Sao Paulo), (1997) Vol. 49, No. 1-2, pp.
117-120.
ISSN: 0009-6725.

DOCUMENT TYPE: Article

LANGUAGE: English

SUMMARY LANGUAGE: English; Portuguese

L8 ANSWER 14 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1997:709023 CAPLUS

DOCUMENT NUMBER: 127:356154

TITLE: Interaction of humic acid in vermicompost with
pesticides

AUTHOR(S): Landgraf, M. D.; Rezende, M. O. O.

CORPORATE SOURCE: Instituto De QUIMICA De Sao Carlos-USP, S. Carlos,
Brazil

SOURCE: An. Reun. Nac. Microbiol. Apl. Meio Ambiente, 1st
(1997), Meeting Date 1996, 97-104. Editor(s):
Esposito, Elisa. Instituto de Quimica, Universidade
Estadual de Campinas: Campinas, Brazil.
CODEN: 65FRAH

DOCUMENT TYPE: Conference

LANGUAGE: Portuguese

L8 ANSWER 15 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1998:295933 BIOSIS
DOCUMENT NUMBER: PREV199800295933
TITLE: Bacteriology of laying hens' manure, composting and
Eisenia foetida (Oligochaeta:
Lumbricidae.
AUTHOR(S): Rodriguez, Claudia (1); Finola, Monica; Beoletto, Viviana;
Basualdo, Claudia
CORPORATE SOURCE: (1) Dep. Produccion Animal, Facultad Agronomia Veterinaria,
Univ. Nacional Rio Cuarto, 5800 Rio Cuarto, Cordoba
Argentina
SOURCE: Megadrilogica, (Dec., 1997) Vol. 7, No. 3, pp. 21-27.
ISSN: 0380-9633.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English; Spanish

L8 ANSWER 16 OF 83 USPATFULL

ACCESSION NUMBER: 96:106200 USPATFULL
TITLE: Lumbricus product and method of making same
INVENTOR(S): Charter, Edward A., 2354 Anora Dr., Abbotsford, British
Columbia, Canada V2S 5P8
Lee, Seung H., 31212 Peardonville Rd., Abbotsford,
British Columbia, Canada V2S 5W6

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5576026		19961119
APPLICATION INFO.:	US 1994-316110		19940930 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Lilling, Herbert J.		
LEGAL REPRESENTATIVE:	Hughes, Robert B.		
NUMBER OF CLAIMS:	6		
EXEMPLARY CLAIM:	1		
LINE COUNT:	378		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 17 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1996:475638 BIOSIS
DOCUMENT NUMBER: PREV199699205194
TITLE: Actinomycetes in the intestinal tract of soil invertebrates
fed with vermicompost or litter.
AUTHOR(S): Zenova, G. M.; Babkina, N. I.; Polyanskaya, L. M.;
Zvyagintsev, D. G.
CORPORATE SOURCE: M.V. Lomonosov Mosc. State Univ., Moscow 119899 Russia
SOURCE: Mikrobiologiya, (1996) Vol. 65, No. 3, pp. 409-415.
ISSN: 0026-3656.
DOCUMENT TYPE: Article
LANGUAGE: Russian
SUMMARY LANGUAGE: Russian; English

L8 ANSWER 18 OF 83 SCISEARCH COPYRIGHT 2001 ISI (R)

ACCESSION NUMBER: 96:515702 SCISEARCH
THE GENUINE ARTICLE: UV387
TITLE: ACTINOMYCETES IN THE INTESTINAL-TRACT OF SOIL
INVERTEBRATES FED WITH VERMICOMPOST OR LITTER
AUTHOR: ZENOVA G M (Reprint); BABKINA N I; POLYANSKAYA L M;
ZVYAGINTSEV D G
CORPORATE SOURCE: MOSCOW MV LOMONOSOV STATE UNIV, MOSCOW 119899, RUSSIA
(Reprint)
COUNTRY OF AUTHOR: RUSSIA
SOURCE: MICROBIOLOGY, (MAY/JUN 1996) Vol. 65, No. 3, pp. 360-365.
ISSN: 0026-2617.

DOCUMENT TYPE: Article; Journal
FILE SEGMENT: LIFE
LANGUAGE: ENGLISH
REFERENCE COUNT: 20
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L8 ANSWER 19 OF 83 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1997:736942 CAPLUS
DOCUMENT NUMBER: 127:345543
TITLE: Chemical **composition** of earthworm (**Eisenia foetida** and *Lumbricus rubellus*) silages
AUTHOR(S): Ortega Cerrilla, Esther; Reyes Ortigoza, Amada Laura; Mendoza Martinez, German
CORPORATE SOURCE: Programa de Ganaderia, Montecillo, Edo. de Mexico, Mex.
SOURCE: Arch. Latinoam. Nutr. (1996), 46(4), 325-328
CODEN: ALANBH; ISSN: 0004-0622
PUBLISHER: Sociedad Latinoamericana de Nutricion
DOCUMENT TYPE: Journal
LANGUAGE: Spanish

L8 ANSWER 20 OF 83 SCISEARCH COPYRIGHT 2001 ISI (R)
ACCESSION NUMBER: 96:882946 SCISEARCH
THE GENUINE ARTICLE: VU805
TITLE: The effects of metal contamination on earthworm populations around a smelting works: Quantifying species effects
AUTHOR: Spurgeon D J (Reprint); Hopkin S P
CORPORATE SOURCE: UNIV READING, SCH ANIM & MICROBIAL SCI, ECOTOXICOL RES GRP, POB 228, READING RG6 6AJ, BERKS, ENGLAND (Reprint)
COUNTRY OF AUTHOR: ENGLAND
SOURCE: APPLIED SOIL ECOLOGY, (SEP 1996) Vol. 4, No. 2, pp. 147-160.
Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS.
ISSN: 0929-1393.
DOCUMENT TYPE: Article; Journal
FILE SEGMENT: AGRI
LANGUAGE: English
REFERENCE COUNT: 72
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L8 ANSWER 21 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1996:359111 BIOSIS
DOCUMENT NUMBER: PREV199699081467
TITLE: Bacterial communities associated with soil invertebrates.
AUTHOR(S): Tret'yakova, E. B.; Dobrovol'skaya, T. G.; Byzov, B. A.; Zvyagintsev, D. G.
CORPORATE SOURCE: M.V. Lomonosov Mosc. State Univ., Moscow 119899 Russia
SOURCE: Mikrobiologiya, (1996) Vol. 65, No. 1, pp. 102-110.
ISSN: 0026-3656.
DOCUMENT TYPE: Article
LANGUAGE: Russian
SUMMARY LANGUAGE: Russian; English

L8 ANSWER 22 OF 83 CABA COPYRIGHT 2001 CABI
ACCESSION NUMBER: 1998:6287 CABA
DOCUMENT NUMBER: 971413051
TITLE: Possibility of using some invertebrates as feed sources
Bazi omurgasiz hayvanlardan yem kaynagi olarak yararlanma olanaklari
AUTHOR: Akkan, S.; Alcicek, A.

CORPORATE SOURCE: Zootekni Bolumu, Bornova, Izmir, Turkey.
SOURCE: Ege Universitesi Ziraat Fakultesi Dergisi, (1995)
Vol. 32, No. 3, pp. 205-209. 7 ref.
ISSN: 1018-8851

DOCUMENT TYPE: Journal
LANGUAGE: Turkish
SUMMARY LANGUAGE: English

L8 ANSWER 23 OF 83 CABA COPYRIGHT 2001 CABI
ACCESSION NUMBER: 97:148658 CABA
DOCUMENT NUMBER: 971411853
TITLE: Producing a feed additive on the basis of sunflower
shell
AUTHOR: Kulik, A. P.; Garmash, S. N.; Buleiko, S. Yu.;
Polishchuk, N. B.; Chernyshova, T. P.
CORPORATE SOURCE: Ukrainian State University of Chemical Technology,
Prospekt Gagarina, 8, Dnepropetrovsk 320005,
Ukraine.
SOURCE: Ecology of Industrial Regions, (1995) Vol. 1, No.
1/2, pp. 111-115. 13 ref.
DOCUMENT TYPE: Journal
LANGUAGE: English
SUMMARY LANGUAGE: Ukrainian

L8 ANSWER 24 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1995:250468 BIOSIS
DOCUMENT NUMBER: PREV199598264768
TITLE: On genetic diversity of **Eisenia foetida**
(Sav.
AUTHOR(S): Bolotetskii, N. M.; Kodolova, O. P.; Pravdukhina, O. Yu.
CORPORATE SOURCE: Fac. Biol., M.V. Lomonosov Mosc. State Univ., Moscow Russia
SOURCE: Izvestiya Akademii Nauk Seriya Biologicheskaya (Moscow),
(1994) Vol. 0, No. 3, pp. 404-410.
DOCUMENT TYPE: Article
LANGUAGE: Russian
SUMMARY LANGUAGE: Russian; English

L8 ANSWER 25 OF 83 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1994:408049 CAPLUS
DOCUMENT NUMBER: 121:8049
TITLE: Effect of earthworm on soil chemical properties
Sasaki, Hideaki; Ando, Ho; Kobayashi, Shiro
CORPORATE SOURCE: Fac. Agric., Yamagata Univ., Tsuruoka, 997, Japan
SOURCE: Nippon Dojo Hiriyogaku Zasshi (1994), 65(2), 184-6
CODEN: NIDHAX; ISSN: 0029-0610
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

L8 ANSWER 26 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1996:325577 BIOSIS
DOCUMENT NUMBER: PREV199699047933
TITLE: Elemental **composition** and spectrophotometric
characteristics of humic acids extracted from
vermicomposts.
AUTHOR(S): Kalembasa, Stanislaw; Kalembasa, Dorota; Makowiecki,
Krzysztof; Godlewska, Agnieszka
CORPORATE SOURCE: Soil Sci. Plant Nutr. Dep., Agric. Pedagogical Univ., B.
Prusa 14, 08-110 Siedlce Poland
SOURCE: Polish Journal of Soil Science, (1994) Vol. 27, No. 2, pp.
93-101.
ISSN: 0079-2985.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English; Polish

L8 ANSWER 27 OF 83 USPATFULL
ACCESSION NUMBER: 93:12304 USPATFULL
TITLE: Therapeutic medicament for thrombosis
INVENTOR(S): Ishii, Yoichi, Miyazaki, Japan
Mihara, Hisashi, Miyazaki, Japan
Ho, Lee M., Seoul, Korea, Republic of
Kimura, Goro, Kamakura, Japan
PATENT ASSIGNEE(S): Eimei Company Ltd., Miyazaki, Japan (non-U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5186944		19930216
APPLICATION INFO.:	US 1991-807406		19911212 (7)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1990-475021, filed on 5 Feb 1990, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1989-33701	19890215
	JP 1989-107250	19890428
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Naff, David M.	
ASSISTANT EXAMINER:	Witz, Jean C.	
LEGAL REPRESENTATIVE:	Wyatt, Gerber, Burke and Badie	
NUMBER OF CLAIMS:	3	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1445	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 28 OF 83 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1994:516737 CAPLUS
DOCUMENT NUMBER: 121:116737
TITLE: Content of carbon and nitrogen in alkaline extracts of biohumus produced from organic wasted
AUTHOR(S): Kalembsa, Dorota; Kalembsa, Stainslaw; Makowiecki, Krzysztof; Godlewska, Agnieszka
CORPORATE SOURCE: Dep. Soil Sci. and Agric. Chem., Agric.-Pedagogical Univ., Siedlce, 08-110, Pol.
SOURCE: Zesz. Probl. Postepow Nauk Roln. (1993), 409 167-74
CODEN: ZPPRAW; ISSN: 0084-5477
DOCUMENT TYPE: Journal
LANGUAGE: Polish

L8 ANSWER 29 OF 83 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1994:516736 CAPLUS
DOCUMENT NUMBER: 121:116736
TITLE: Chemical **composition**, nitrogen and carbon fractions of biohumus produced from waste sludges
AUTHOR(S): Kalembsa, S.; Makowiecki, K.; Kalembsa, D.
CORPORATE SOURCE: Dep. Soil Sci. and Agricultural Chem., Agricultural-Pedagogical Univ., Siedlce, 08-110, Pol.
SOURCE: Zesz. Probl. Postepow Nauk Roln. (1993), 409 159-66
CODEN: ZPPRAW; ISSN: 0084-5477
DOCUMENT TYPE: Journal
LANGUAGE: Polish

L8 ANSWER 30 OF 83 CABA COPYRIGHT 2001 CABI
ACCESSION NUMBER: 96:62572 CABA
DOCUMENT NUMBER: 961300954
TITLE: Recycling of organic wastes by *Eisenia foetida* (Annelida - Ologichaeta)

Reciclagem de residuo organico por **Eisenia foetida** (Annelida - Ologichaeta)
 AUTHOR: Moreira, H. M.; Silva, V. P. da; Sachwen, A. V.; Junior, V. L. D.; Da Silva, V. P.
 CORPORATE SOURCE: Titular de Zoologia da Universidade de Marilia - UNIMAR - Marilia (SP) Brasil.
 SOURCE: UNIMAR Ciencias, (1993) Vol. 1, pp. 48-51. 8 ref.
 DOCUMENT TYPE: Journal
 LANGUAGE: Portuguese
 SUMMARY LANGUAGE: English

L8 ANSWER 31 OF 83 USPATFULL
 ACCESSION NUMBER: 92:55310 USPATFULL
 TITLE: Process for the production of dried earthworm powder and antihyperlipemic, antidiabetic, antihypertensive and antihypotensive preparations containing dried earthworm powder as active ingredient
 INVENTOR(S): Ishii, Yoichi, Miyazaki, Japan
 Mihara, Hisashi, Miyazaki, Japan
 PATENT ASSIGNEE(S): Eimei Company, Ltd., Miyazaki, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5128148		19920707
APPLICATION INFO.:	US 1991-641519		19910115 (7)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1988-228672, filed on 5 Aug 1988, now patented, Pat. No. US 5024844		

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1987-204904	19870818
	JP 1987-204905	19870818
	JP 1988-94541	19880419
	JP 1988-94542	19880419
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Robinson, Douglas W.	
ASSISTANT EXAMINER:	Witz, Jean C.	
LEGAL REPRESENTATIVE:	Oblon, Spivak, McClelland, Maier & Neustadt	
NUMBER OF CLAIMS:	16	
EXEMPLARY CLAIM:	1	
LINE COUNT:	2032	

L8 ANSWER 32 OF 83 USPATFULL
 ACCESSION NUMBER: 92:54358 USPATFULL
 TITLE: Encapsulated earthworm cocoons
 INVENTOR(S): Kreitzer, William R., Gibson City, IL, United States
 PATENT ASSIGNEE(S): Advanced Biotechnology, Inc., Gibson City, IL, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5127186		19920707
APPLICATION INFO.:	US 1991-733356		19910719 (7)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1990-547604, filed on 2 Jul 1990, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Locker, Howard J.		
LEGAL REPRESENTATIVE:	Bateman, Philip L.		
NUMBER OF CLAIMS:	11		
EXEMPLARY CLAIM:	1		
LINE COUNT:	216		

L8 ANSWER 33 OF 83 USPATFULL
 ACCESSION NUMBER: 92:5219 USPATFULL
 TITLE: Process for preparing organic compost from municipal refuse
 INVENTOR(S): Glogowski, Mark E., 1498 Lake Rd., Hamlin, NY, United States 14464

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5082486		19920121
APPLICATION INFO.:	US 1990-614262		19901116 (7)
DISCLAIMER DATE:	20071120		
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1988-269499, filed on 10 Nov 1988, now patented, Pat. No. US 4971616, issued on 20 Nov 1990 which is a continuation-in-part of Ser. No. US 1987-35913, filed on 8 Apr 1987, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Lander, Ferris H.		
LEGAL REPRESENTATIVE:	Greenwald, Howard J.		
NUMBER OF CLAIMS:	19		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)		
LINE COUNT:	881		

L8 ANSWER 34 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
 ACCESSION NUMBER: 1993:301987 BIOSIS
 DOCUMENT NUMBER: PREV199396020212
 TITLE: The **composition** of phospholipid and biosynthesis of platelet activating factor in earthworm (**Eisenia foetida**).
 AUTHOR(S): Cheng, N. N. (1); Sugiura, T.; Fukuda, T.; Waku, K.
 CORPORATE SOURCE: (1) Dep. Pharmacology, Wannan Med. Coll., Wuhu 241001
 SOURCE: Acta Pharmaceutica Sinica, (1992) Vol. 27, No. 12, pp. 886-890.
 DOCUMENT TYPE: Article
 LANGUAGE: Chinese
 SUMMARY LANGUAGE: Chinese; English

L8 ANSWER 35 OF 83 CABA COPYRIGHT 2001 CABI
 ACCESSION NUMBER: 93:21178 CABA
 DOCUMENT NUMBER: 931974950
 TITLE: Humification of organic waste material during earthworm composting
 AUTHOR: Concheri, G.; Nardi, S.; Dell'Agnola, G.
 CORPORATE SOURCE: Dipartimento di Biotecnologie Agrarie, Univ. Padova, 35131 Padova, Italy.
 SOURCE: Fresenius Environmental Bulletin, (1992) Vol. 1, No. 11, pp. 754-759. 13 ref.
 ISSN: 1018-4619
 DOCUMENT TYPE: Journal
 LANGUAGE: English

L8 ANSWER 36 OF 83 CABA COPYRIGHT 2001 CABI
 ACCESSION NUMBER: 95:179976 CABA
 DOCUMENT NUMBER: 951909714
 TITLE: Population structure of earthworms in the subalpine zone of the Northern Caucasus (Elbrus region)
 AUTHOR: Kulikov, A. Yu.
 CORPORATE SOURCE: A. N. Severtsov Institute of Evolutionary Morphology and Animal Ecology, Russia.
 SOURCE: Soviet Journal of Ecology, (1992) Vol. 23, No. 5,

pp. 339-343. translated from Ekologiya (1992) 5
78-82. 3 ref.
ISSN: 0096-7807

DOCUMENT TYPE: Journal
LANGUAGE: English

L8 ANSWER 37 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1991:488822 CAPLUS

DOCUMENT NUMBER: 115:88822

TITLE: Preparation of fat mixtures comprising
eicosapentaenoate ester from worms of family
Lumbricidae

INVENTOR(S): Farkas, Tibor; Fodor, Andras; Kopp, Maria; Nagy
Vanicsek, Aniko; Varnali, Aniko

PATENT ASSIGNEE(S): MTA Szegedi Biologiai Kozpont, Hung.

SOURCE: PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9107480	A1	19910530	WO 1990-HU73	19901113
W: AU, BB, BG, BR, CA, FI, JP, KP, KR, LK, MC, MG, NO, SD, SU, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
HU 202406	B	19910328	HU 1989-5870	19891113
AU 9067248	A1	19910613	AU 1990-67248	19901113
PRIORITY APPLN. INFO.:			HU 1989-5870	19891113
			WO 1990-HU73	19901113

L8 ANSWER 38 OF 83 USPATFULL

ACCESSION NUMBER: 91:48457 USPATFULL

TITLE: Process for the production of dried earthworm powder
and antihyperlipemic, antidiabetic, antihypertensive
and antihypotensive preparations containing dried
earthworm powder as active ingredient

INVENTOR(S): Ishii, Yoichi, Miyazaki, Japan
Mihara, Hisashi, Miyazaki, Japan

PATENT ASSIGNEE(S): Eimei Company, Ltd., Miyazaki, Japan (non-U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5024844		19910618
APPLICATION INFO.:	US 1988-228672		19880805 (7)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1987-204904	19870818
	JP 1987-204905	19870818
	JP 1988-94541	19880419
	JP 1988-94542	19880419

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Robinson, Douglas W.

ASSISTANT EXAMINER: Witz, Jean C.

LEGAL REPRESENTATIVE: Oblon, Spivak, McClelland, Maier & Neustadt, P.C.

NUMBER OF CLAIMS: 4

EXEMPLARY CLAIM: 1

LINE COUNT: 1930

L8 ANSWER 39 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1992:49382 BIOSIS
TITLE: THE INTERACTION OF A PROTEIN FROM THE COELOMIC FLUID OF
EARTHWORMS WITH STAPHYLOCOCCAL PROTEIN A.
AUTHOR(S): REJNEK J; TUCKOVA L; ZIKAN J; TOMANA M
CORPORATE SOURCE: DEP. IMMUNOL., INST. MICROBIOL., CZECH. ACAD. SCI.,
VIDENSKA 1083, CS-142 20 PRAGUE 4, CSFR.
SOURCE: DEV COMP IMMUNOL, (1991) 15 (4), 269-278.
CODEN: DCIMDQ. ISSN: 0145-305X.
FILE SEGMENT: BA; OLD
LANGUAGE: English

L8 ANSWER 40 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1991:432212 BIOSIS
DOCUMENT NUMBER: BA92:88377
TITLE: PURIFICATION AND BIOCHEMICAL PROPERTIES OF FIBRINOLYTIC
ENZYMES FROM THE EARTHWORM BY AFFINITY CHROMATOGRAPHY.
AUTHOR(S): XU J; ZHANG G; CHEN S; ZHOU Y; CHEN Y
CORPORATE SOURCE: DEP. HEMATOL., ZHONG SHAN HOSP., SHANGHAI MED. UNIV.,
SHANGHAI, CHINA.
SOURCE: ACTA ACAD MED SHANGHAI, (1991) 18 (4), 252-256.
CODEN: SYDXEE. ISSN: 0257-8131.
FILE SEGMENT: BA; OLD
LANGUAGE: Chinese

L8 ANSWER 41 OF 83 CABA COPYRIGHT 2001 CABI
ACCESSION NUMBER: 93:57069 CABA
DOCUMENT NUMBER: 931977696
TITLE: Use of the earthworm **Eisenia foetida** for the decomposition of animal
manure. II. Cattle and goat manure
Utilizacion de la lombriz **Eisenia foetida** en la degradacion de guano animal.
II. Guano de bovino y de caprino
AUTHOR: Jadrijevic, D.; Varnero, M. T.; Carrasco, A.;
Lopez-Aliaga, R.
CORPORATE SOURCE: Departamento de Prodducion Animal, Universidad de
Chile, Santiago, Chile.
SOURCE: Avances en Produccion Animal, (1991) Vol. 16, No.
1-2, pp. 189-201. 13 ref.
DOCUMENT TYPE: Journal
LANGUAGE: Spanish
SUMMARY LANGUAGE: English

L8 ANSWER 42 OF 83 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1991:513241 CAPLUS
DOCUMENT NUMBER: 115:113241
TITLE: Use of the earthworm **Eisenia foetida**
for bioconversion of wastes and as a valuable feed
AUTHOR(S): Kholodova, Yu. D.; Mironova, V. N.; Gorodnii, N. M.;
Povkhan, M. F.; Solodova, E. V.; Bulevskii, N. V.;
Mel'nik, I. A.
CORPORATE SOURCE: Inst. Biokhim., Kiev, USSR
SOURCE: Dokl. Akad. Nauk Ukr. SSR (1991), (2), 139-43
CODEN: DANSEM
DOCUMENT TYPE: Journal
LANGUAGE: Russian

L8 ANSWER 43 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1991:476429 BIOSIS
DOCUMENT NUMBER: BA92:110189
TITLE: A NOTE ON THE NUTRITIONAL EVALUATION OF WORM MEAL
EISENIA-FOETIDA IN DIETS FOR RAINBOW
TROUT.
AUTHOR(S): VELASQUEZ L; IBANEZ I; HERRERA C; OYARZUN M

CORPORATE SOURCE: FAC. QUIMICA, P. UNIVERSIDAD CATOLICA CHILE, SANTIAGO,
CHILE.
SOURCE: ANIM PROD, (1991) 53 (1), 119-122.
CODEN: ANIPA8. ISSN: 0003-3561.
FILE SEGMENT: BA; OLD
LANGUAGE: English

L8 ANSWER 44 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1992:8366 BIOSIS
DOCUMENT NUMBER: BA93:8366
TITLE: COMPOSITION OF LIPIDS AND FATTY ACIDS IN
EISENIA-FOETIDA TISSUES.

AUTHOR(S): KHOLODOVA YU D; MIRONOVA V N; POVKHAN M F; GORODNII N M;
BERDYSHEV A G; BULEVSKII N V; MEL'NIK I A

CORPORATE SOURCE: A.V. PALLADIN INST. BIOCHEM., ACAD. SCI. UKR. SSR, KIEV,
USSR.

SOURCE: UKR BIOKHIM ZH, (1991) 63 (3), 76-81.
CODEN: UBZHD4. ISSN: 0201-8470.

FILE SEGMENT: BA; OLD
LANGUAGE: Russian

L8 ANSWER 45 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1991:171311 CAPLUS
DOCUMENT NUMBER: 114:171311

TITLE: Therapeutic medicament containing earthworm powder for
thrombosis and method for preparation thereof

INVENTOR(S): Ishii, Yoichi; Mihara, Hisashi; Lee, Mun Ho; Kimura,
Goro

PATENT ASSIGNEE(S): Eimei Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 29 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 383533	A1	19900822	EP 1990-301496	19900213
EP 383533	B1	19940824		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL				
AU 9049155	A1	19900823	AU 1990-49155	19900206
AU 619951	B2	19920206		
CA 2009531	AA	19900815	CA 1990-2009531	19900207
JP 03072427	A2	19910327	JP 1990-31534	19900214
JP 3037355	B2	20000424		
US 5186944	A	19930216	US 1991-807406	19911212
PRIORITY APPLN. INFO.:			JP 1989-33701	A 19890215
			JP 1989-107250	A 19890428
			US 1990-475021	B1 19900205

L8 ANSWER 46 OF 83 USPATFULL

ACCESSION NUMBER: 90:88941 USPATFULL

TITLE: Process for preparing organic compost from municipal
refuse

INVENTOR(S): Glogowski, Mark E., 1498 Lake Rd., Hamlin, NY, United
States 14464

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4971616		19901120
APPLICATION INFO.:	US 1988-269499		19881110 (7)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1988-35913, filed on 8 Apr 1988, now abandoned		

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Lander, Ferris H.
LEGAL REPRESENTATIVE: Greenwald, Howard J.
NUMBER OF CLAIMS: 16
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 1055

L8 ANSWER 47 OF 83 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1991:182424 CAPLUS
DOCUMENT NUMBER: 114:182424
TITLE: Purification and biochemical characterization of the
platelet aggregation factor from the earthworm
(Eisenia foelide)
AUTHOR(S): Zhou, Yuancong; Zhu, Hong; Chen, Ruihong; Chen,
Yuancong; Tao, Zongjin; Xu, Jianmin; Zhang, Guozheng
CORPORATE SOURCE: Shanghai Inst. Biochem., Acad. Sin., Shanghai, Peop.
Rep. China
SOURCE: Shengwu Huaxue Yu Shengwu Wuli Xuebao (1990), 22(5),
469-76
CODEN: SHWPAU; ISSN: 0582-9879
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

L8 ANSWER 48 OF 83 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1990:570964 CAPLUS
DOCUMENT NUMBER: 113:170964
TITLE: Trace elements in soil and biota in confined disposal
facilities for dredged material
AUTHOR(S): Beyer, W. Nelson; Miller, Gary; Simmers, John W.
CORPORATE SOURCE: Patuxent Wildl. Res. Cent., U. S. Fish Wildl. Serv.,
Laurel, MD, 20708, USA
SOURCE: Environ. Pollut. (1990), 65(1), 19-32
CODEN: ENPOEK; ISSN: 0269-7491
DOCUMENT TYPE: Journal
LANGUAGE: English

L8 ANSWER 49 OF 83 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1990:153346 CAPLUS
DOCUMENT NUMBER: 112:153346
TITLE: Fate of BHC in the terrestrial ecosystem
AUTHOR(S): Huang, Shizhong; Li, Zhixiang
CORPORATE SOURCE: Natl. Agroenviron. Protect. Inst., Tianjin, Peop. Rep.
China
SOURCE: J. Environ. Sci. (China) (1989), 1(2), 48-53
CODEN: JENSEE
DOCUMENT TYPE: Journal
LANGUAGE: English

L8 ANSWER 50 OF 83 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1990:137826 CAPLUS
DOCUMENT NUMBER: 112:137826
TITLE: Study of the lipid-protein composition of
Eisenia foetida
AUTHOR(S): Smailova, T. S.; Morev, Yu. B.; Abdykerimova, A. S.;
Koshoev, K. K.
CORPORATE SOURCE: Inst. Biol., Frunze, USSR
SOURCE: Izv. Akad. Nauk Kirg. SSR, Khim.-Tekhnol. Biol. Nauki
(1989), (2), 30-2
CODEN: IAKNED
DOCUMENT TYPE: Journal
LANGUAGE: Russian

L8 ANSWER 51 OF 83 CABA COPYRIGHT 2001 CABI
ACCESSION NUMBER: 90:143873 CABA
DOCUMENT NUMBER: 901427576
TITLE: Use of earthworms as a protein supplement in the
diet of rabbits
Uso de la lombriz de tierra como suplemento
proteinico en dietas para conejos
AUTHOR: Orozco Almanza, M. S.; Ortega Cerrilla, M. E.;
Perez-Gil Romo, F.
CORPORATE SOURCE: Departamento de Nutricion Animal, Division de
Nutricion Experimental y Ciencia de los Alimentos,
Instituto Nacional de la Nutricion "Salvador
Zubiran", Vasco de Quiroga No. 15, Col. y Deleg.
Tlalpan, 14000 Mexico City, DF, Mexico.
SOURCE: Archivos Latinoamericanos de Nutricion, (1988) Vol.
38, No. 4, pp. 946-955. 22 ref.
DOCUMENT TYPE: Journal
LANGUAGE: Spanish
SUMMARY LANGUAGE: English

L8 ANSWER 52 OF 83 MEDLINE
ACCESSION NUMBER: 91136374 MEDLINE
DOCUMENT NUMBER: 91136374 PubMed ID: 3154302
TITLE: [Use of earthworms as a protein supplement in diets for
rabbits].
Uso de la lombriz de tierra como suplemento proteinico en
dietas para conejos.
AUTHOR: Orozco Almanza M S; Ortega Cerrilla M.E; Perez-Gil Romo F
CORPORATE SOURCE: Instituto Nacional de la Nutricion Salvador Zubiran,
Mexico, D.F.
SOURCE: ARCHIVOS LATINOAMERICANOS DE NUTRICION, (1988 Dec) 38 (4)
946-55.
Journal code: 7RD; 0067507. ISSN: 0004-0622.
PUB. COUNTRY: Venezuela
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: Spanish
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199103
ENTRY DATE: Entered STN: 19910405
Last Updated on STN: 19910405
Entered Medline: 19910319

L8 ANSWER 53 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1988:200157 BIOSIS
DOCUMENT NUMBER: BA85:101503
TITLE: PROTEINS FROM CYTOPLASMIC RIBOSOMES OF ANNELID WORMS.
AUTHOR(S): GREIF K; KLEINOW W
CORPORATE SOURCE: DEUTSCHES KREBSFORSCHUNGSZENTRUM, INST. BIOCHEM. PROF DR F.
MARKS, IM NEUENHEIMER FELD 280, D-6900 HEIDELBERG, W.
GERMANY.
SOURCE: COMP BIOCHEM PHYSIOL B COMP BIOCHEM, (1988) 89 (2),
347-354.
CODEN: CBPBB8. ISSN: 0305-0491.
FILE SEGMENT: BA; OLD
LANGUAGE: English

L8 ANSWER 54 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1989:477184 BIOSIS
DOCUMENT NUMBER: BA88:112944
TITLE: RAINWORM MEATMEAL AS PROTEIN FOOD FOR FATTENING CHICKENS.
AUTHOR(S): JELACA R
CORPORATE SOURCE: POLOPROMET KARLOVAC, 47000 KARLOVAC.
SOURCE: POLJOPR ZNAN SMOTRA, (1988) 53 (3-4), 307-316.
CODEN: PJZSAZ. ISSN: 0370-0291.

FILE SEGMENT: BA; OLD
LANGUAGE: Serbo-Croatian

L8 ANSWER 55 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1988:423877 BIOSIS
DOCUMENT NUMBER: BA86:86489
TITLE: CHEMICAL CHANGES DURING VERMICOMPOSTING **EISENIA-FOETIDA** OF SHEEP MANURE MIXED WITH COTTON INDUSTRIAL WASTES.
AUTHOR(S): ALBANELL E; PLAIXATS J; CABRERO T
CORPORATE SOURCE: AGRICULTURA, FAC. DE VET., UNIV. AUTONOMA DE BARCELONA, BELLATERRA, E-08193 BARCELONA, SPAIN.
SOURCE: BIOL FERTIL SOILS, (1988) 6 (3), 266-269.
CODEN: BFSOEE. ISSN: 0178-2762.
FILE SEGMENT: BA; OLD
LANGUAGE: English

L8 ANSWER 56 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1989:158249 BIOSIS
DOCUMENT NUMBER: BA87:80350
TITLE: THE FINNISH LUMBRICIDAE OLIGOCHAETA FAUNA AND ITS FORMATION.
AUTHOR(S): TERHIVOU J
CORPORATE SOURCE: ZOOL. MUS., UNIV. HELSINKI, P. RAUTATIEKATU 13, SF-00100 HELSINKI, FINLAND.
SOURCE: ANN ZOOL FENN, (1988) 25 (3), 229-248.
CODEN: AZOFAO. ISSN: 0003-455X.
FILE SEGMENT: BA; OLD
LANGUAGE: English

L8 ANSWER 57 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1989:29049 BIOSIS
DOCUMENT NUMBER: BA87:17049
TITLE: PROTEIN ANALYSIS OF EARTHWORM COELOMIC FLUID IV. EVIDENCE ACTIVITY INDUCTION AND PURIFICATION OF **EISENIA-FOETIDA**-ANDREAI LYSOZYME ANNELIDAE.
AUTHOR(S): LASSALLE F; LASSEGUES M; ROCH P
CORPORATE SOURCE: DEP. DE BIOL. DE DEVELOPPEMENT, UNIV. DE BORDEAUX 1-UA CNRS 1136, INST. DE BIOL. ANIMALE, AVE. DES FAC., 33405 TALENCE CEDEX, FRANCE.
SOURCE: COMP BIOCHEM PHYSIOL B COMP BIOCHEM, (1988) 91 (1), 187-192.
CODEN: CBPBB8. ISSN: 0305-0491.
FILE SEGMENT: BA; OLD
LANGUAGE: English

L8 ANSWER 58 OF 83 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1988:469262 CAPLUS
DOCUMENT NUMBER: 109:69262
TITLE: Purification and biochemical characterization of the fibrinolytic enzymes from the earthworm *Eisenia foelide*
AUTHOR(S): Zhou, Yuancong; Zhu, Hong; Chen, Yuancong; Tao, Zongjin
CORPORATE SOURCE: Shanghai Inst. Biochem., Acad. Sin., Shanghai, Peop. Rep. China
SOURCE: Shengwu Huaxue Yu Shengwu Wuli Xuebao (1988), 20(1), 35-42
CODEN: SHWPAU; ISSN: 0582-9879
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

L8 ANSWER 59 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1988:418556 BIOSIS

DOCUMENT NUMBER: BA86:81168
TITLE: CHEMICAL **COMPOSITION** AND AMINO ACID CONTENT OF
THE EARTHWORM **EISENIA-FOETIDA** SAV. AND
LUMBRICUS-RUBELLUS HOFF.
AUTHOR(S): FLORES M T; ALVIRA P
CORPORATE SOURCE: CATEDRA DE AGRIC., DPTO. DE PRODUCCION ANIM., FAC. DE
VETERINARIA, UNIV. COMPLUTENSE, CIUDAD UNIV., 28040 MADRID,
SPAIN.
SOURCE: AN EDAFOL AGROBIOL, (1987) 46 (7-8), 785-798.
CODEN: AEDAAB. ISSN: 0365-1797.
FILE SEGMENT: BA; OLD
LANGUAGE: Spanish

L8 ANSWER 60 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1988:405038 BIOSIS
DOCUMENT NUMBER: BR35:68013
TITLE: THE EARTHWORMS **EISENIA-FOETIDA** SAV. AND
LUMBRICUS-RUBELLUS HOFF. BIOLOGY AND USES.
AUTHOR(S): FLORES M T; ALVIRA P
CORPORATE SOURCE: CATEDRA DE AGRIC., DPTO. DE PRODUCCION ANIM., FAC. DE VET.,
UNIV. COMPLUTENSE, CIUDAD UNIVERSITARIA, 28040 MADRID,
SPAIN.
SOURCE: An. Edafol. Agrobiol., (1987) 46 (7-8), 771-784.
CODEN: AEDAAB. ISSN: 0365-1797.
FILE SEGMENT: BR; OLD
LANGUAGE: Spanish

L8 ANSWER 61 OF 83 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1989:36884 CAPLUS
DOCUMENT NUMBER: 110:36884
TITLE: Cellulolytic and ligninolytic activities in the
digestive tract of Eisenia fetida andrei Bouche
Loquet, M.; Vincelas, M.
CORPORATE SOURCE: Lab. Biol. Veg. Ecol., Fac. Sci. Tech. Rouen,
Mont-Saint-Aignan, 76130, Fr.
SOURCE: Rev. Ecol. Biol. Sol (1987), 24(4), 559-71
CODEN: REBSA4; ISSN: 0035-1822
DOCUMENT TYPE: Journal
LANGUAGE: French

L8 ANSWER 62 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1988:393077 BIOSIS
DOCUMENT NUMBER: BA86:65716
TITLE: THE CHEMICAL AND AMINO ACID **COMPOSITION** OF THE
COMPOST WORM **EISENIA-FOETIDA** AS
POTENTIAL PROTEIN SOURCE IN ANIMAL FEEDS.
AUTHOR(S): REINECKE A J; ALBERTS J N
CORPORATE SOURCE: DEP. DIERKUNDE, PU VIR CHO, POTCHEFSTROOM 2520.
SOURCE: S-AFR TYDSKR NATUURWET TEGNOL, (1987) 6 (4), 144-149.
CODEN: SATTDF. ISSN: 0254-3486.
FILE SEGMENT: BA; OLD
LANGUAGE: Afrikaans

L8 ANSWER 63 OF 83 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1990:403535 CAPLUS
DOCUMENT NUMBER: 113:3535
TITLE: Year-cycle changes during the early vitellogenesis in
Eisenia foetida. II. Histoenzymic
study on female reproductive cells
AUTHOR(S): Czechowicz, Kazimierz; Pilsniak, Urszula; Skowerska,
Mirosława
CORPORATE SOURCE: Dep. Anim. Histol. Embryol., Silesian Sch. Med.,
Katowice, Pol.
SOURCE: Zool. Pol. (1987), 34(1-4), 97-103

CODEN: ZOPOAG; ISSN: 0044-510X
DOCUMENT TYPE: Journal
LANGUAGE: English

L8 ANSWER 64 OF 83 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1990:403534 CAPLUS
DOCUMENT NUMBER: 113:3534
TITLE: Year-cycle changes during the early vitellogenesis in
Eisenia foetida. I. Histochemical
analysis
AUTHOR(S): Czechowicz, Kazimierz; Skowerska, Mirosława; Pilsniak,
Urszula
CORPORATE SOURCE: Dep. Anim. Histol. Embryol., Silesian Sch. Med.,
Katowice, Pol.
SOURCE: Zool. Pol. (1987), 34(1-4), 81-96
CODEN: ZOPOAG; ISSN: 0044-510X
DOCUMENT TYPE: Journal
LANGUAGE: English

L8 ANSWER 65 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1987:147040 BIOSIS
DOCUMENT NUMBER: BA83:76090
TITLE: AMINO ACID **COMPOSITIONS** AND RELATIONSHIPS OF FIVE
EARTHWORM DEFENSE PROTEINS.
AUTHOR(S): ROCH P; VALEMBOIS P; VAILLIER J
CORPORATE SOURCE: UA CNRS, NEUROBIOL DEV. IMMUNOLOGIE COMPAREE, UNIV.
BORDEAUX I, AVE. DES FACULTES, 33405 TALENCE, FR.
SOURCE: COMP BIOCHEM PHYSIOL B COMP BIOCHEM, (1986 (RECD 1987)) 85
(4), 747-752.
CODEN: CBPBB8. ISSN: 0305-0491.
FILE SEGMENT: BA; OLD
LANGUAGE: English

L8 ANSWER 66 OF 83 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1986:449144 CAPLUS
DOCUMENT NUMBER: 105:49144
TITLE: Preliminary study on chemical constituents of
earthworm Daping II
AUTHOR(S): Zhao, Chungui; Si, Shilin
CORPORATE SOURCE: Hebei Coll. Trad. Chin. Med., Shijiazhuang, Peop. Rep.
China
SOURCE: Zhongyao Tongbao (1986), 11(5), 296-7
CODEN: CYTPDT; ISSN: 0254-0029
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

L8 ANSWER 67 OF 83 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1986:606668 CAPLUS
DOCUMENT NUMBER: 105:206668
TITLE: The collagen content of selected animals
AUTHOR(S): Cianciosi, S. C.; Hird, Francis J. R.
CORPORATE SOURCE: Russell Grimwade Sch. Biochem., Univ. Melbourne,
Parkville, 3052, Australia
SOURCE: Comp. Biochem. Physiol., B: Comp. Biochem. (1986),
85B(2), 295-8
CODEN: CBPBB8; ISSN: 0305-0491
DOCUMENT TYPE: Journal
LANGUAGE: English

L8 ANSWER 68 OF 83 CABA COPYRIGHT 2001 CABI
ACCESSION NUMBER: 88:15189 CABA
DOCUMENT NUMBER: 881403229
TITLE: \ Earthworm meal. 2. Fatty acid **composition**,
antinutritional factors and heat treatments for

bacteriological control
Harina de lombriz. 2. Composicion de acidos grasos,
factores antinutricionales y tratamiento termico
para control bacteriäl
AUTHOR: Velasquez B., L. A.; Herrera C., C. A.; Ibanez B.,
I. A.
CORPORATE SOURCE: Lab. Proteinas y Alimentos, Facultad de Quimica,
Pontificia Univ. Catolica de Chile Casilla 6177,
Santiago, Chile.
SOURCE: Alimentos, Chile, (1986) Vol. 11, No. 4, pp. 9-13. 9
ref.
DOCUMENT TYPE: Journal
LANGUAGE: Spanish
SUMMARY LANGUAGE: English

L8 ANSWER 69 OF 83 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1986:31991 CAPLUS
DOCUMENT NUMBER: 104:31991
TITLE: Cholecystokinin in the nervous systems of
invertebrates and protochordates. Immunohistochemical
localization of a cholecystokinin-8-like substance in
annelids and insects
AUTHOR(S): Dhainaut-Courtois, N.; Tramu, G.; Marcel, R.; Malecha,
J.; Verger-Bocquet, M.; Andries, J. C.; Masson, M.;
Selloum, L.; Belemtougri, G.; Beauvillain, J. C.
CORPORATE SOURCE: Univ. Lille I, Villeneuve d'Ascq, 59655, Fr.
SOURCE: Ann. N. Y. Acad. Sci. (1985), 448 (Neuronal
Cholecystokinin), 167-87
CODEN: ANYAA9; ISSN: 0077-8923
DOCUMENT TYPE: Journal
LANGUAGE: English

L8 ANSWER 70 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1985:196808 BIOSIS
DOCUMENT NUMBER: BR29:86804
TITLE: SPECIES **COMPOSITION** OF EARTHWORMS AND THE
INCIDENCE OF THEIR INFESTATION WITH HELMINTH LARVAE IN THE
BELORUSSIAN-SSR USSR.
AUTHOR(S): BYCHKOVA L I
CORPORATE SOURCE: INST. ZOOL., ACAD. SCI. B. SSR, MINSK, USSR.
SOURCE: Vestsi Akad. Navuk BSSR, Ser. Biyal. Navuk, (1985) 0 (1),
91-93.
CODEN: VABBA3. ISSN: 0002-3558.
FILE SEGMENT: BR; OLD
LANGUAGE: Byelorussian

L8 ANSWER 71 OF 83 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1985:107677 CAPLUS
DOCUMENT NUMBER: 102:107677
TITLE: The localization of heavy metals in the tissues of
terrestrial invertebrates by electron microprobe x-ray
analysis
AUTHOR(S): Morgan, A. J.
CORPORATE SOURCE: Zool. Dep., Univ. Coll., Cardiff, CFI IXL, UK
SOURCE: Scanning Electron Microsc. (1984), (4), 1847-65
CODEN: SEMYBL; ISSN: 0586-5581
DOCUMENT TYPE: Journal
LANGUAGE: English

L8 ANSWER 72 OF 83 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1985:575730 CAPLUS
DOCUMENT NUMBER: 103:175730
TITLE: An analysis of the inorganic **composition** of
the setae of **Eisenia foetida**

(Oligochaeta, Lumbricidae)
AUTHOR(S): Harman, Walter J.
CORPORATE SOURCE: Dep. Zool. Physiol., Louisiana State Univ., Baton Rouge, LA, 70803-1725, USA
SOURCE: Proc. La. Acad. Sci. (1984), 47, 19-22
CODEN: PLAAA6; ISSN: 0096-9192
DOCUMENT TYPE: Journal
LANGUAGE: English

L8 ANSWER 73 OF 83 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1984:453556 CAPLUS
DOCUMENT NUMBER: 101:53556
TITLE: Determination of nutrients in the earthworm and its evaluation
AUTHOR(S): Zhang, Hongzhi; Wang, Lilan; Wang, Lan
CORPORATE SOURCE: Jilin Inst. Biol., Peop. Rep. China
SOURCE: Dongwuxue Zazhi (1984), (2), 18-21
CODEN: TWHCDZ; ISSN: 0250-3263
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

L8 ANSWER 74 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1984:263903 BIOSIS
DOCUMENT NUMBER: BA78:383
TITLE: POSSIBLE SIGNIFICANCE OF THE TRANS AMIDINATION REACTION IN EVOLUTION.
AUTHOR(S): HIRD F J R; CIANCIOSI S C; MCLEAN R M; NIEKRASH R E
CORPORATE SOURCE: RUSSELL GRIMWADE SCH. BIOCHEM., UNIV. MELBOURNE, PARKVILLE, VICTORIA 3052, AUSTRALIA.
SOURCE: COMP BIOCHEM PHYSIOL B COMP BIOCHEM, (1983 (RECD 1984)) 76 (3), 489-496.
CODEN: CBPBB8. ISSN: 0305-0491.
FILE SEGMENT: BA; OLD
LANGUAGE: English

L8 ANSWER 75 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1983:246060 BIOSIS
DOCUMENT NUMBER: BA76:3552
TITLE: THE ELEMENTAL **COMPOSITION** OF THE CHLORAGOSOMES OF 9 SPECIES OF BRITISH EARTHWORMS IN RELATION TO CALCIFEROUS GLAND ACTIVITY.
AUTHOR(S): MORGAN A J
CORPORATE SOURCE: DEP. ZOOL., UNIV. COLL., CARDIFF CF1 1XL, UK.
SOURCE: COMP BIOCHEM PHYSIOL A COMP PHYSIOL, (1982) 73 (2), 207-216.
CODEN: CBPAB5. ISSN: 0300-9629.
FILE SEGMENT: BA; OLD
LANGUAGE: English

L8 ANSWER 76 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1982:143159 BIOSIS
DOCUMENT NUMBER: BA73:3143
TITLE: PROTEIN ANALYSIS OF EARTHWORM COELOMIC FLUID 2. ISOLATION AND BIOCHEMICAL CHARACTERIZATION OF THE **EISENIA-FOETIDA**-ANDREA FACTOR.
AUTHOR(S): ROCH P; DAVANT N; LASSEGUES M; VALEMBOIS P
CORPORATE SOURCE: CENT. MORPHOL. EXP., CNRS, UNIV. BORDEAUX 1, AVE. DES FACULTES, 33405-TALENCE CEDEX, FR.
SOURCE: COMP BIOCHEM PHYSIOL B COMP BIOCHEM, (1981) 69 (4), 829-836.
CODEN: CBPBB8. ISSN: 0305-0491.
FILE SEGMENT: BA; OLD
LANGUAGE: English

L8 ANSWER 77 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
 ACCESSION NUMBER: 1980:279205 BIOSIS
 DOCUMENT NUMBER: BA70:71701
 TITLE: **COMPOSITION OF THE EARTHWORM EISENIA-FOETIDA AND ASSIMILATION OF 15 ELEMENTS FROM SLUDGE DURING GROWTH.**
 AUTHOR(S): HARTENSTEIN R; LEAF A L; NEUHAUSER E F; BICKELHAUPT D H
 CORPORATE SOURCE: STATE UNIV. N.Y. COLL. ENVIRON. SCI. FOR., SYRACUSE, N.Y. 13210, USA.
 SOURCE: COMP BIOCHEM PHYSIOL C COMP PHARMACOL, (1980) 66 (2), 187-192.
 CODEN: CBPCBB. ISSN: 0306-4492.
 FILE SEGMENT: BA; OLD
 LANGUAGE: English

L8 ANSWER 78 OF 83 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1981:527000 CAPLUS
 DOCUMENT NUMBER: 95:127000
 TITLE: Parathion modifies serotonin and catecholamine content in brain and subesophagic ganglions of **Eisenia foetida**
 AUTHOR(S): Izquierdo, J. A.; Tomsic, Z.; Alvarado, Leticia
 CORPORATE SOURCE: Cent. Estudios Faramacol. Principios Nat., Buenos Aires, 1428, Argent.
 SOURCE: Rev. Soc. Argent. Biol. (1979), 54-55(1-8), 116-19
 CODEN: RSABAC; ISSN: 0037-8380
 DOCUMENT TYPE: Journal
 LANGUAGE: English

L8 ANSWER 79 OF 83 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1981:2227 CAPLUS
 DOCUMENT NUMBER: 94:2227
 TITLE: Morphological and cytochemical studies of the vitellogenesis in **Eisenia foetida** (Oligochaeta: annelida)
 AUTHOR(S): Sareen, M. L.; Verma, V.
 CORPORATE SOURCE: Zool. Dep., Panjab Univ., Chandigarh, India
 SOURCE: Res. Bull. Panjab Univ., Sci. (1979), Volume Date 1976, 27(1-2), 41-9
 CODEN: RBJUAT; ISSN: 0555-7631
 DOCUMENT TYPE: Journal
 LANGUAGE: English

L8 ANSWER 80 OF 83 CABA COPYRIGHT 2001 CABI
 ACCESSION NUMBER: 79:74896 CABA
 DOCUMENT NUMBER: 791483285
 TITLE: Nutritional value of earthworm for poultry feed
 AUTHOR: Yoshida, M.; Hoshii, H.
 CORPORATE SOURCE: National Inst. Animal Industry, Chiba-shi 280, Japan.
 SOURCE: Japanese Poultry Science, (1978) Vol. 15, No. 6, pp. 308-311. 8 ref.
 ISSN: 0029-0254
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 SUMMARY LANGUAGE: Japanese

L8 ANSWER 81 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
 ACCESSION NUMBER: 1980:224357 BIOSIS
 DOCUMENT NUMBER: BA70:16853
 TITLE: MORPHOLOGICAL AND CYTOCHEMICAL STUDIES OF THE VITELLOGENESIS IN **EISENIA-FOETIDA** OLIGOCHAETA ANNELIDA.
 AUTHOR(S): SAREEN M L; VERMA V

CORPORATE SOURCE: ZOOL. DEP., PANJAB UNIV., CHANDIGARH, PUNJAB-HARYAN, INDIA.
SOURCE: RES BULL PANJAB UNIV SCI, (1976 (RECD 1980)) 27 (1-2),
41-50.
CODEN: RBJUAT. ISSN: 0555-7631.
FILE SEGMENT: BA; OLD
LANGUAGE: English

L8 ANSWER 82 OF 83 CABA COPYRIGHT 2001 CABI
ACCESSION NUMBER: 76:97166 CABA
DOCUMENT NUMBER: 751921990
TITLE: Influence of earthworm activity on protein content
and quality in oat seedlings
AUTHOR: Aldag, R.; Graff, O.
CORPORATE SOURCE: Institut fur Bodenkunde der Universitat, 3400
Gottingen, von Sieboldstrasse 4, German Federal
Republic.
SOURCE: Landwirtschaftliche Forschung, (1975) No. Sonderheft
31/II, Kongressband 1974, pp. 277-284.
DOCUMENT TYPE: Journal
LANGUAGE: German
SUMMARY LANGUAGE: English; French

L8 ANSWER 83 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1971:168464 BIOSIS
DOCUMENT NUMBER: BA52:78464
TITLE: BIOCHEMICAL STUDIES ON **EISENIA-FOETIDA**
THE BRANDLING WORM PART 3 BLOOD **COMPOSITION**.
AUTHOR(S): MCLAUGHLIN J
SOURCE: COMP BIOCHEM PHYSIOL, (1971) 38 (1B), 179-195.
CODEN: CBCPAI. ISSN: 0010-406X.
FILE SEGMENT: BA; OLD
LANGUAGE: Unavailable

=>

(FILE 'HOME' ENTERED AT 14:29:33 ON 11 OCT 2001)

FILE 'BIOSIS, CABA, CAPLUS, EMBASE, LIFESCI, MEDLINE, SCISEARCH,
USPATFULL, JAPIO' ENTERED AT 14:30:50 ON 11 OCT 2001

L1 2704 S EISENIA FOETIDA
L2 1559 DUP REMOVE L1 REMP (1145 DUPLICATES REMOVED)
L3 62 S COELOMIC CYTOLYTIC FACTOR 1 OR CCF-1
L4 30 DUP REM L3 (32 DUPLICATES REMOVED)
SET SMA OFF
SET SMA ON
SET SMA LOGIN

FILE 'CAPLUS' ENTERED AT 14:38:04 ON 11 OCT 2001

L6 1 S L***

FILE 'BIOSIS, CABA, CAPLUS, EMBASE, LIFESCI, MEDLINE, SCISEARCH,
USPATFULL, JAPIO' ENTERED AT 14:38:15 ON 11 OCT 2001

L7 83 S L2 AND COMPOSITION?
L8 83 DUP REM L7 (0 DUPLICATES REMOVED)
L9 0 S L8 AND L4
L10 3 S GLUCAN-BINDING AND L2
L11 1 S LIPOPOLYSACCHARIDE-BINDING AND L2

4 ANSWER 1 OF 30 USPATFULL

ACCESSION NUMBER: 2001:173662 USPATFULL

TITLE: Propylene composition, process for preparing the same, polypropylene composition, and molded articles

INVENTOR(S): Okayama, Chikashi, Ichihara, Japan
Nakashima, Takanori, Ichihara, Japan
Kimura, Masami, Ichihara, Japan
Wakata, Mayumi, Ichihara, Japan
Kimura, Kazuhiro, Ichihara, Japan
Yamamoto, Toshiki, Ichihara, Japan
Ishii, Hirohisa, Ichihara, Japan
Sugimoto, Masataka, Ichihara, Japan
Gouda, Kunio, Ichihara, Japan
Mochizuki, Yasuhiro, Chiba, Japan
Saito, Noriaki, Ichihara, Japan
Yokota, Junichiro, Ichihara, Japan
Kawano, Shouji, Ichihara, Japan
Nakagawa, Yasuhiko, Ichihara, Japan

PATENT ASSIGNEE(S): Chisso Corporation, Osaka, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6300415	B1	20011009
	WO 9719135		19970529
APPLICATION INFO.:	US 1998-68949		19980814 (9)
	WO 1996-JP3433		19961122
			19980814 PCT 371 date
			19980814 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1995-305292	19951124
	JP 1996-35639	19960129
	JP 1996-106365	19960402
	JP 1996-174178	19960613
	JP 1996-181141	19960621
	JP 1996-209030	19960718
	JP 1996-209031	19960718

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Nutter, Nathan M.
LEGAL REPRESENTATIVE: McDermott, Will & Emery
NUMBER OF CLAIMS: 30
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 2429

L4 ANSWER 2 OF 30 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 1

ACCESSION NUMBER: 2000:398292 BIOSIS

DOCUMENT NUMBER: PREV200000398292

TITLE: A lipopolysaccharide- and beta-1,3-glucan-binding protein from hemocytes of the freshwater crayfish *Pacifastacus leniusculus*: Purification, characterization, and cDNA cloning.

AUTHOR(S): Lee, So Young; Wang, Ruigong; Soderhall, Kenneth (1)
CORPORATE SOURCE: (1) Department of Comparative Physiology, Evolutionary Biology Center, Uppsala University, Norbyvagen 18A, S-75236, Uppsala Sweden

SOURCE: Journal of Biological Chemistry, (January 14, 2000) Vol. 275, No. 2, pp. 1337-1343. print.
ISSN: 0021-9258.

DOCUMENT TYPE: Article

LANGUAGE: English

SUMMARY LANGUAGE: English

L4 ANSWER 3 OF 30 MEDLINE
 ACCESSION NUMBER: 2001505386 MEDLINE
 DOCUMENT NUMBER: 21245812 PubMed ID: 11347248
 TITLE: Antimicrobial defense of the earthworm.
 AUTHOR: Bilej M; De Baetselier P; Beschin A
 CORPORATE SOURCE: Department of Immunology and Gnotobiology, Institute of Microbiology, Academy of Sciences of the Czech Republic, 142 20 Prague 4, Czechia.
 SOURCE: FOLIA MICROBIOLOGICA, (2000) 45 (4) 283-300. Ref: 139
 Journal code: F23; 0376757. ISSN: 0015-5632.
 PUB. COUNTRY: Czech Republic
 Journal; Article; (JOURNAL ARTICLE)
 General Review; (REVIEW)
 (REVIEW, TUTORIAL)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 200109
 ENTRY DATE: Entered STN: 20010917
 Last Updated on STN: 20010917
 Entered Medline: 20010913

L4 ANSWER 4 OF 30 CABA COPYRIGHT 2001 CABI
 ACCESSION NUMBER: 2001:2661 CABA
 DOCUMENT NUMBER: 20000617559
 TITLE: Continuous cover forestry
 AUTHOR: Helliwell, R.
 CORPORATE SOURCE: Yokecliffe House, West End, Wirksworth, Derbyshire DE4 4EG, UK.
 SOURCE: Continuous cover forestry, (1999) pp. 23. 11 ref.
 Publisher: Continuous Cover Forestry Group. Bedford
 Price: pounds sterling3
 PUB. COUNTRY: United Kingdom
 DOCUMENT TYPE: Miscellaneous
 LANGUAGE: English

L4 ANSWER 5 OF 30 MEDLINE
 ACCESSION NUMBER: 1999385340 MEDLINE
 DOCUMENT NUMBER: 99385340 PubMed ID: 10458158
 TITLE: Convergent evolution of cytokines.
 AUTHOR: Beschin A; Bilej M; Brys L; Torreele E; Lucas R; Magez S; De Baetselier P
 SOURCE: NATURE, (1999 Aug 12) 400 (6745) 627-8.
 Journal code: NSC; 0410462. ISSN: 0028-0836.
 PUB. COUNTRY: ENGLAND: United Kingdom
 Letter
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199909
 ENTRY DATE: Entered STN: 19990925
 Last Updated on STN: 19990925
 Entered Medline: 19990908

L4 ANSWER 6 OF 30 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1999:405076 CAPLUS
 DOCUMENT NUMBER: 131:41281
 TITLE: Earthworm coelomic cytolytic factor CCF-1 and treatment of cancer and trypanosomal or bacterial infection
 INVENTOR(S): De Baetselier, Patrick
 PATENT ASSIGNEE(S): Vlaams Interuniversitair Instituut voor Biotechnologie Vzw., Belg.
 SOURCE: PCT Int. Appl., 49 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9931229	A2	19990624	WO 1998-EP8169	19981216
WO 9931229	A3	19990826		
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 9921616	A1	19990705	AU 1999-21616	19981216
EP 1042475	A2	20001011	EP 1998-965828	19981216
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
PRIORITY APPLN. INFO.:			EP 1997-203974 A	19971217
			WO 1998-EP8169 W	19981216

L4 ANSWER 7 OF 30 JAPIO COPYRIGHT 2001 JPO
ACCESSION NUMBER: 1999-103407 JAPIO
TITLE: CCD DATA PIXEL INTERPOLATING CIRCUIT AND DIGITAL STILL CAMERA PROVIDED WITH THE SAME
INVENTOR: MIYAMOTO KEISUKE
PATENT ASSIGNEE(S): NEC CORP, JP (CO 000423)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 11103407	A	19990413	Heisei	(6) H04N005-225

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1997-263428 19970929
ORIGINAL: JP09263428 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 99, No. 4

L4 ANSWER 8 OF 30 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1999:539165 CAPLUS
DOCUMENT NUMBER: 131:285145
TITLE: Convergent evolution of cytokines
AUTHOR(S): Beschin, Alain; Bilej, Martin; Brys, Lea; Torreele, Els; Lucas, Rudolf; Magez, Stefan; De Baetselier, Patrick
CORPORATE SOURCE: Dep. Immunology, Parasitology and Ultrastructure, Flemish Interuniversity Inst. Biotechnology, St-Genesius-Rode, 1640, Belg.
SOURCE: Nature (London) (1999), 400(6745), 627-628
CODEN: NATUAS; ISSN: 0028-0836
PUBLISHER: Macmillan Magazines
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 20
REFERENCE(S): (2) Beschin, A; J Biol Chem 1998, V273, P24948 CAPLUS
(3) Bilej, M; Immunol Lett 1995, V45, P123 CAPLUS
(4) Bilej, M; Immunol Lett 1998, V60, P23 CAPLUS
(7) Field, C; Carbon Dioxide and Terrestrial

Ecosystems 1996, P121 CAPLUS
(8) Habicht, G; Adv Comp Environ Physiol 1996, V24,
P29 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 30 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 2
ACCESSION NUMBER: 1999:59948 BIOSIS
DOCUMENT NUMBER: PREV199900059948
TITLE: Estimation of chemical carcass composition from 8th rib
characteristics with Belgian blue double-muscled bulls.
AUTHOR(S): De Campeneere, S. (1); Fiems, L. O.; Van De Voorde, G.;
Vanacker, J. M.; Boucque, C. V.; Demeyer, D. I.
CORPORATE SOURCE: (1) Agric. Res. Cent. Ghent, Dep. Animal Nutr. Husbandy,
Scheldeweg 68, 9090 Mell-Gontrode Belgium
SOURCE: Meat Science, (Jan., 1999) Vol. 51, No. 1, pp. 27-33.
ISSN: 0309-1740.
DOCUMENT TYPE: Article
LANGUAGE: English

L4 ANSWER 10 OF 30 USPATFULL
ACCESSION NUMBER: 1998:113571 USPATFULL
TITLE: Outboard file cache system
INVENTOR(S): Cooper, Thomas P., New Brighton, MN, United States
Swenson, Robert E., Mendota Heights, MN, United States
PATENT ASSIGNEE(S): Unisys Corporation, Blue Bell, PA, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5809527		19980915
APPLICATION INFO.:	US 1993-174750		19931223 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Swann, Tod R.		
ASSISTANT EXAMINER:	Thai, Tuan V.		
LEGAL REPRESENTATIVE:	Johnson, Charles A., Starr, Mark T.		
NUMBER OF CLAIMS:	37		
EXEMPLARY CLAIM:	14		
NUMBER OF DRAWINGS:	229 Drawing Figure(s); 198 Drawing Page(s)		
LINE COUNT:	8942		

L4 ANSWER 11 OF 30 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 3
ACCESSION NUMBER: 1998:480950 BIOSIS
DOCUMENT NUMBER: PREV199800480950
TITLE: Identification and cloning of a glucan- and
lipopolysaccharide-binding protein from Eisenia foetida
earthworm involved in the activation of prophenoloxidase
cascade.
AUTHOR(S): Beschin, Alain (1); Bilej, Martin; Hanssens, Filip;
Raymakers, Jos; Van Dyck, Els; Revets, Hilde; Brys, Lea;
Gomez, Julio; De Baetselier, Patrick; Timmermans, Miet
CORPORATE SOURCE: (1) Unit Cellular Immunol., Flemish Interuniversity Inst.
Biotechnol., VIB-VUB, Paardenstraat 65, B-1640
St-Genesius-Rode Belgium
SOURCE: Journal of Biological Chemistry, (Sept. 18, 1998) Vol. 273,
No. 38, pp. 24948-24954.
ISSN: 0021-9258.
DOCUMENT TYPE: Article
LANGUAGE: English

L4 ANSWER 12 OF 30 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1999:37162 CAPLUS
DOCUMENT NUMBER: 130:251435
TITLE: Estimation of chemical carcass composition from 8th

rib characteristics with Belgian blue double-muscled
bulls

AUTHOR(S): De Campeneere, S.; Fiems, L. O.; Van de Voorde, G.;
Vanacker, J. M.; Boucque, Ch. V.; Demeyer, D. I.

CORPORATE SOURCE: Agricultural Research Centre, Ghent, Belg.

SOURCE: Meat Sci. (1998), Volume Date 1999, 51(1), 27-53
CODEN: MESCDN; ISSN: 0309-1740

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 35

REFERENCE(S): (3) Baardseth, P; Journal of Food Science 1992, V57,
P822 CAPLUS
(21) Huffman, D; Cereal Foods World 1992, V37, P439
CAPLUS
(28) Morr, C; CRC Critical Reviews in Food Science and
Nutrition 1993, V33, P431 CAPLUS
(29) Morr, C; Journal of Dairy Research 1979, V46,
P369 CAPLUS
(30) Mulvihill, D; Food Technology 1987, V41(9), P102
CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 30 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 4

ACCESSION NUMBER: 1998:181244 BIOSIS

DOCUMENT NUMBER: PREV199800181244

TITLE: Cellular expression of the cytolytic factor in earthworms
Eisenia foetida.

AUTHOR(S): Bilej, Martin (1); Rossmann, Pavel; Sinkora, Marek;
Hanusova, Radka; Beschin, Alain; Raes, Geert; De
Baetselier, Patrick

CORPORATE SOURCE: (1) Dep. Immunol., Inst. Microbiol., Acad. Sci. Czech
Republic, Vydenska 1083, 142 20 Prague 4 Czech Republic

SOURCE: Immunology Letters, (Jan., 1998) Vol. 60, No. 1, pp. 23-29.
ISSN: 0165-2478.

DOCUMENT TYPE: Article

LANGUAGE: English

L4 ANSWER 14 OF 30 USPATFULL

ACCESSION NUMBER: 97:99967 USPATFULL

TITLE: Method and apparatus for block-level auditing and
database recovery in a transaction processing system

INVENTOR(S): Cooper, Thomas P., New Brighton, MN, United States
Hill, Michael J., Vadnais Heights, MN, United States
Konrad, Dennis R., Welch, MN, United States
Nowatzki, Thomas L., Shoreview, MN, United States

PATENT ASSIGNEE(S): Unisys Corporation, Blue Bell, PA, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5682527		19971028
APPLICATION INFO.:	US 1994-363443		19941222 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Amsbury, Wayne		
LEGAL REPRESENTATIVE:	Johnson, Charles A., Starr, Mark T.		
NUMBER OF CLAIMS:	21		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	22 Drawing Figure(s); 19 Drawing Page(s)		
LINE COUNT:	1386		

L4 ANSWER 15 OF 30 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1998:376298 CAPLUS

DOCUMENT NUMBER: 129:178133
 TITLE: Validation of GOME with ground-based ozone measurements at Uccle (Belgium)
 AUTHOR(S): Schoubs, Els; De Muer, Dirk
 CORPORATE SOURCE: Royal Meteorological Institute of Belgium, Brussels, B-1180, Belg.
 SOURCE: Eur. Space Agency, [Spec. Publ.] ESA SP (1997), ESA SP-414(Vol. 2, Space at the Service of Our Environment), 715-718
 CODEN: ESPUD4; ISSN: 0379-6566
 PUBLISHER: ESA Publications Division
 DOCUMENT TYPE: Journal
 LANGUAGE: English

L4 ANSWER 16 OF 30 USPATFULL

ACCESSION NUMBER: 96:9640 USPATFULL
 TITLE: Multi-resonant boost high power factor circuit
 INVENTOR(S): El-Hamamsy, Sayed-Amr, Schenectady, NY, United States
 Kheraluwala, Mustansir H., Schenectady, NY, United States
 Kachmarik, David J., North Olmsted, OH, United States
 PATENT ASSIGNEE(S): General Electric Company, Schenectady, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5488269		19960130
APPLICATION INFO.:	US 1995-386572		19950210 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Pascal, Robert J.		
ASSISTANT EXAMINER:	Ratliff, Reginald A.		
LEGAL REPRESENTATIVE:	Breedlove, Jill M., Snyder, Marvin		
NUMBER OF CLAIMS:	14		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	11 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	487		

L4 ANSWER 17 OF 30 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 5

ACCESSION NUMBER: 1995:253801 BIOSIS
 DOCUMENT NUMBER: PREV199598268101
 TITLE: Identification of cytolytic protein in the coelomic fluid of Eisenia foetida earthworms.
 AUTHOR(S): Bilej, Martin (1); Brys, Lea; Beschin, Alain; Lucas, Rudolf; Vercauteren, Edilbert; Hanusova, Radka; De Baetselier, Patrick
 CORPORATE SOURCE: (1) Dep. Immunol. Gnotobiol., Inst. Microbiol., Acad. Sci. Czech Republic, Videnska 1083, 142 20 Prague 4 Czech Republic
 SOURCE: Immunology Letters, (1995) Vol. 45, No. 1-2, pp. 123-128. ISSN: 0165-2478.
 DOCUMENT TYPE: Article
 LANGUAGE: English

L4 ANSWER 18 OF 30 MEDLINE

ACCESSION NUMBER: 94315664 MEDLINE
 DOCUMENT NUMBER: 94315664 PubMed ID: 8040927
 TITLE: Application of a human immortalized fibroblast cell line in laboratory diagnosis of autoimmune diseases.
 AUTHOR: Chiang L C; Chiang W; Wu C H
 CORPORATE SOURCE: Department of Microbiology, Kaohsiung Medical College, Taiwan, Republic of China.
 SOURCE: KAO-HSIUNG I HSUEH KO HSUEH TSA CHIH [KAOHSIUNG JOURNAL OF MEDICAL SCIENCES], (1994 May) 10 (5) 244-9.

JOURNAL code: KAO; 8603880. ISSN: 0257-5655.
PUB. COUNTRY: TAIWAN: Taiwan, Province of China
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: Chinese
FILE SEGMENT: Dental Journals; Priority Journals
ENTRY MONTH: 199408
ENTRY DATE: Entered STN: 19940905
Last Updated on STN: 19940905
Entered Medline: 19940825

L4 ANSWER 19 OF 30 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 6
ACCESSION NUMBER: 1993:315647 BIOSIS
DOCUMENT NUMBER: PREV199396023997
TITLE: Nutrient utilization and rumen fermentation in crossbred calves fed maize fodder preserved with urea plus common salt treatment.
AUTHOR(S): Thakur, S. S.; Sharma, D. S.
CORPORATE SOURCE: Dairy Cattle Nutr. Div., Natl. Dairy Res. Inst., Karnal, Haryana 132 001 India
SOURCE: Indian Journal of Animal Sciences, (1993) Vol. 63, No. 4, pp. 456-460.
ISSN: 0367-8318.
DOCUMENT TYPE: Article
LANGUAGE: English

L4 ANSWER 20 OF 30 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 7
ACCESSION NUMBER: 1993:192376 BIOSIS
DOCUMENT NUMBER: PREV199395102826
TITLE: Bronchoalveolar lavage: Influence of cytologic methods on the cellular picture.
AUTHOR(S): Taskinen, Eero (1); Tukiainen, Pentti; Renkonen, Risto
CORPORATE SOURCE: (1) Transplantation Laboratory, Univ. Helsinki, Haartmaninkatu 3, 00290 Helsinki Finland
SOURCE: Acta Cytologica, (1992) Vol. 36, No. 5, pp. 680-686.
ISSN: 0001-5547.
DOCUMENT TYPE: Article
LANGUAGE: English

L4 ANSWER 21 OF 30 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1993:475694 CAPLUS
DOCUMENT NUMBER: 119:75694
TITLE: Kinetics of copper dissolution by copper(II) chloride in aerated neutral solutions and kinetics of copper(I) chloride oxidation to copper(II) hydroxychloride by air
AUTHOR(S): Lubej, A.; Plazl, I.; Koloini, T.
CORPORATE SOURCE: Metall. Chem. Ind., Celje, 63000, Slovenia
SOURCE: Chem. Biochem. Eng. Q. (1992), 6(4), 201-9
CODEN: CBEQEZ; ISSN: 0352-9568
DOCUMENT TYPE: Journal
LANGUAGE: English

L4 ANSWER 22 OF 30 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 8
ACCESSION NUMBER: 1992:281815 BIOSIS
DOCUMENT NUMBER: BA94:6465
TITLE: SPONTANEOUS PRODUCTION OF GROWTH FACTORS FOR HUMAN LYMPHOCYTES FROM A HUMAN PAPILLOMAVIRUS TYPE 18-CONTAINED FORESKIN FIBROBLAST CELL LINE.
AUTHOR(S): CHIANG L-C; CHIANG W; CHANG S-F; CHEN H-Y
CORPORATE SOURCE: DEP. MICROBIOLOGY, KAOHSIUNG MEDICAL COLLEGE, NO. 100, SHIH-CHUAN 1ST ROAD, KAOHSIUNG CITY 807, TAIWAN.
SOURCE: KAOHSIUNG J MED SCI, (1992) 8 (3), 121-126.
CODEN: KHHCE2. ISSN: 0257-5655.
FILE SEGMENT: BA; OLD

LANGUAGE: English

L4 ANSWER 23 OF 30 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 9
ACCESSION NUMBER: 1992:280945 BIOSIS
DOCUMENT NUMBER: BA94:5595
TITLE: CHARACTERIZATION OF AN IMMORTALIZED HUMAN CELL LINE DERIVED
FROM NEONATAL FORESKIN DIPLOID FIBROBLASTS.
AUTHOR(S): CHIANG L-C; CHIANG W; CHANG S-F; CHEN H-Y; YU H-S
CORPORATE SOURCE: DEP. MICROBIOLOGY, KAOHSIUNG MED. COLL., KAOHSIUNG 80708,
TAIWAN.
SOURCE: J DERMATOL (TOKYO), (1992) 19 (1), 1-11.
CODEN: JDMYAG. ISSN: 0385-2407.
FILE SEGMENT: BA; OLD
LANGUAGE: English

L4 ANSWER 24 OF 30 USPATFULL
ACCESSION NUMBER: 84:56945 USPATFULL
TITLE: Processes for making 3-methylthiophene-2-carboxaldehyde
and intermediates therefor
INVENTOR(S): Andrews, Glenn C., Waterford, CT, United States
PATENT ASSIGNEE(S): Pfizer Inc., New York, NY, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4476312		19841009
APPLICATION INFO.:	US 1984-581463		19840217 (6)
RELATED APPLN. INFO.:	Division of Ser. No. US 1982-381596, filed on 24 May 1982		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Siegel, Alan		
LEGAL REPRESENTATIVE:	Knuth, Charles J., Frost, A. E., Dryer, Mark		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1088		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L4 ANSWER 25 OF 30 USPATFULL
ACCESSION NUMBER: 84:51363 USPATFULL
TITLE: Processes for making 3-methylthiophene-2-carboxaldehyde
and intermediates therefor
INVENTOR(S): Andrews, Glenn C., Waterford, CT, United States
PATENT ASSIGNEE(S): Pfizer Inc., New York, NY, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4471139		19840911
APPLICATION INFO.:	US 1982-381596		19820524 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Siegel, Alan		
LEGAL REPRESENTATIVE:	Knuth, Charles J., Frost, A. E., Dryer, Mark		
NUMBER OF CLAIMS:	4		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1108		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L4 ANSWER 26 OF 30 USPATFULL
ACCESSION NUMBER: 80:30920 USPATFULL
TITLE: Processor controlled editor terminal system and method
INVENTOR(S): Sumner, Murray, Mamaroneck, NY, United States
Liaukau, Sigitas J., Huntington, CT, United States

PATENT ASSIGNEE(S): Bunker Ramo Corporation, Oak Brook, IL, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4209784		19800624
APPLICATION INFO.:	US 1976-757101		19761216 (5)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1975-538201, filed on 2 Jan 1975, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Curtis, Marshall M.		
LEGAL REPRESENTATIVE:	Hill, Van Santen, Steadman, Chiara & Simpson		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	27 Drawing Figure(s); 22 Drawing Page(s)		
LINE COUNT:	3282		

L4 ANSWER 27 OF 30 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1981:87172 CAPLUS
DOCUMENT NUMBER: 94:87172
TITLE: Development of superior liquid coolants CCF-
1
AUTHOR(S): Hodges, R. M.
CORPORATE SOURCE: Dow Corning Corp., Midland, MI, USA
SOURCE: Report (1979), ALO-4296-T2, 161 pp. Avail.: NTIS
From: Energy Res. Abstr. 1980, 5(12), Abstr. No. 18749
DOCUMENT TYPE: Report
LANGUAGE: English

L4 ANSWER 28 OF 30 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1980:139591 BIOSIS
DOCUMENT NUMBER: BA69:14587
TITLE: SIGNIFICANCE OF ORTHOGONAL ELECTRO CARDIOGRAM CHANGES WITH
AGE IN NORMAL MEN AND IN ARTERIAL HYPERTENSION WITHOUT
CONGESTIVE CARDIAC FAILURE IN MEN PAST 40.
AUTHOR(S): ARSENESCU G; SABAU M; BADIU G; VADUVA I; CHERCIU M; MECLEA
G
CORPORATE SOURCE: RADIOBIOL. SECT., DEP. PHYSIOL., TIRGU MURES COMPUT. CENT.,
MED. PHARM. INST., UNIV. BUCHAREST CLIN HOSP., FUNDENI,
ROM.
SOURCE: REV ROUM MORPHOL EMBRYOL PHYSIOL PHYSIOL, (1979) 16 (1),
3-8.
CODEN: RMEPDZ.
FILE SEGMENT: BA; OLD
LANGUAGE: English

L4 ANSWER 29 OF 30 USPATFULL
ACCESSION NUMBER: 77:4941 USPATFULL
TITLE: Metal complexes of azolyl ethers
INVENTOR(S): Buchel, Karl Heinz, Wuppertal, Germany, Federal
Republic of
Kramer, Wolfgang, Wuppertal, Germany, Federal Republic
of
Kaspers, Helmut, Leverkusen, Germany, Federal Republic
of
Scheinpflug, Hans, Leverkusen, Germany, Federal
Republic of
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Leverkusen, Germany, Federal
Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4005083		19770125

APPLICATION INFO.: US 1975-573212 19750430 (5)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1974-2423987	19740517
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Gallagher, R.	
ASSISTANT EXAMINER:	Rivers, Diana G.	
LEGAL REPRESENTATIVE:	Burgess, Dinklage & Sprung	
NUMBER OF CLAIMS:	12	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1052	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 30 OF 30 CAPLUS COPYRIGHT 2001 ACS DUPLICATE 10
ACCESSION NUMBER: 1975:559489 CAPLUS
DOCUMENT NUMBER: 83:159489
TITLE: Segments of paramyosin formed by cleavage at sites of
cysteine residues
AUTHOR(S): Cowgill, Robert W.
CORPORATE SOURCE: Bowman Gray Sch. Med., Wake Forest Univ.,
Winston-Salem, N. C., USA
SOURCE: Biochemistry (1975), 14(19), 4277-9
CODEN: BICHAW
DOCUMENT TYPE: Journal
LANGUAGE: English

=> SET SMA OFF

SET COMMAND COMPLETED

=> SEL RAN.CAPLUS(3) L4 8

L4 WAS CREATED DURING MULTIFILE PROCESSING AND CANNOT BE USED WHEN CREATING E#S
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terms extracted from an L-number that contains answers or terms from
more than one file. SET SMARTSELECT ON must be entered before you
execute the SELECT command.

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SET COMMAND COMPLETED

=> SEL RAN.CAPLUS(3) L4 8

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L5 SEL L4 8 3 : 1 TERM

=>

=>

=> SET SMA LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION